

SAFETY DATA SHEETS

This SDS packet was issued with item:

075802160

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071039015 071039031 071039049 075806500 075806609



MATERIAL SAFETY DATA SHEET

8400 Green Meadows Dr.
P.O. Box 545
Lewis Center, OH 43035
P: 740.548.4100
F: 740.548.7616

SECTION 1: PRODUCT AND EMERGENCY CONTACT INFORMATION

MATERIAL NAME: LUMINESCENCE PLUS™ - DENTAL POLISHING PASTE

PRODUCT CODES: LUMINESCENCE PLUS™ – CFMPSSG5005

EMERGENCY CONTACTS: NORTH AMERICA (24 HRS) – CHEMTREC 1 (800) 424-9300
OUTSIDE NORTH AMERICA (COLLECT) – 1 (703) 527-3887

NON – EMERGENCY CONTACT: 1 (740) 548-4100 (8:00 AM – 5:00 PM EST)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>REG.</u> Y/N	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH</u> TLV	<u>CARCINOGEN</u>
GLYCEROL	GLYCERIN	N	56-81-5	N/A	N/A	N/CLASS 4
INDUSTRIAL DIAMOND	N/A	N	7782-40-3	N/A	10.0 (PNOG)	N/CLASS 4
FOOD GRADE COMPONENTS	N/A	N	N/A	N/A	N/A	N/CLASS 4
POTASSIUM NITRATE	N/A	N	7757-79-1	N/A	N/A	N/CLASS 4

THE COMPOSITION OF THESE COMPOUNDS IS PROPRIETARY.



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SECTION 3: HAZARDS IDENTIFICATION

ACUTE HEALTH EFFECTS: POSSIBLE IRRITATION OF THE EYES FROM ABRASION OF THE DIAMOND IF EXPOSED TO THE EYES. THERE ARE NO OTHER KNOWN ACUTE HEALTH EFFECTS FROM NORMAL USE AND EXPOSURE.

CHRONIC HEALTH EFFECTS:

THERE ARE NO CHRONIC HEALTH EFFECTS FROM NORMAL USE AND EXPOSURE.

CARCINOGENIC EFFECTS – CLASSIFIED AS 4 (NOT CLASSIFIABLE FOR HUMAN OR ANIMAL)

MUTAGENIC EFFECTS – NONE

TETRAOGENIC EFFECTS – NONE

DEVELOPMENTAL TOXICITY – NONE

SECTION 4: FIRST AID MEASURES:

EYE CONTACT: FLUSH THE EYES FOR 15 MINUTES AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WEAR EYE PROTECTION DURING USE OF THIS PRODUCT.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION CONTACT: USE OF A RESPIRATOR WILL PREVENT ANY ACCIDENTAL INHALATION OF PRODUCT.

INGESTION CONTACT: THERE ARE NO KNOWN EFFECTS FROM INGESTION



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SECTION 5: FIRE, EXPLOSION DATA AND MEASURES

FLAMMABILITY: NON - FLAMMABLE

AUTO-IGNITION: NOT APPLICABLE

FLASH POINT: NOT APPLICABLE

FLAMMABLE LIMITS: LEL: NOT APPLICABLE UEL: NOT APPLICABLE

PRODUCTS OF COMBUSTION: STANDARD PRODUCTS OF COMBUSTION I.E. CARBON MONOXIDE, CARBON DIOXIDE, ETC. FROM SURROUNDING FIRE

EXTINGUISHING MEDIA: IN PRESENCE OF FIRE USE WATER

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

ALWAYS WEAR SELF-CONTAINED BREATHING APPARATUS ON POSITIVE PRESSURE. USE WATER TO KEEP MATERIAL IN OR NEAR FIRE COOL. AVOID ANY BODILY CONTACT WITH SUBSTANCE OR WATER FROM FIRE FIGHTING. WATER FROM FIRE FIGHTING SHOULD BE CONTAINED AND DISPOSED PER INSTRUCTIONS IN SECTION 12.

SECTION 6: ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR RELEASE: ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT PER SECTION 8. PROVIDE ADEQUATE VENTILATION TO THE AREA OF THE SPILL. AVOID RAISING DUST DURING THE CLEAN UP PROCESS. USE APPROPRIATE TOOLS TO CLEAN UP AS MUCH OF THE SPILL AS POSSIBLE AND PLACE SOLIDS IN A WASTE DISPOSAL CONTAINER. COMPLETE THE CLEAN UP BY MOPPING UP THE REMAINING DUST AND DEBRIS. COLLECT ALL MOP WATER AND DRY MATERIAL AND DISPOSE OF IN ACCORDANCE TO FEDERAL, STATE OR LOCAL GUIDELINES FOR THIS MATERIAL.



SECTION 7: HANDLING AND STORAGE

HANDLING: USE NORMAL PRECAUTIONS TO PREVENT SPILLING AND CONTAMINATION OF SURROUNDING AREA. GLYCEROL COULD BE VERY SLIPPERY ON SURFACES AND FLOORS.

STORAGE: STORE IN COOL DRY LOCATION

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: USE UNIVERSAL PROTECTION FOR WORKING WITH BODILY FLUIDS.

PERSONAL PROTECTIVE EQUIPMENT (PPE) DURING POLISHING PROCESS

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED.

RESPIRATORY PROTECTION: DUST RESPIRATOR DURING THE MIXING PROCESS TO PREVENT INHALATION OF MISTS

SKIN PROTECTION: APPROPRIATE GLOVES

PERSONAL PROTECTIVE EQUIPMENT IN CASE OF ACCIDENTAL SPILL

EYE PROTECTION: DUST AND MIST PROTECTIVE GOGGLES OR FACE SHIELD

RESPIRATORY PROTECTION: NO SPECIAL RESPIRATORY PROTECTION IS NEEDED FOR CLEAN UP OF SPILL.

SKIN PROTECTION: GLOVES.

IN CASE OF SPILL OBSERVE THE ACGIH TLV VALUES WHEN SELECTING THE APPROPRIATE PPE.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: LUMINESCENCE PLUS™ – GRAY

PHYSICAL STATE: PASTE

ODOR: ODORLESS

SOLUBILITY: COMPLETELY SOLUBLE IN WATER

PH: NOT APPLICABLE

BOILING POINT: NOT APPLICABLE

VISCOSITY: NOT APPLICABLE

FLASH POINT: NOT APPLICABLE

AUTO IGNITION: NOT APPLICABLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID: NONE KNOWN

MATERIALS TO AVOID: NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: NOT APPLICABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: INHALATION, INGESTION

TOXICITY: NON-TOXIC

SPECIAL REMARKS ON ACUTE EFFECTS ON HUMANS AS PASTE: NONE KNOWN

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SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: NON-TOXIC
BOD AND COD: NOT AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSE OF UNUSED POWDER ACCORDING TO FEDERAL, STATE OR LOCAL LAWS. EMPTY CONTAINERS MAY CONTAIN TRACE AMOUNTS OF PASTE AND SHOULD BE TREATED AS WASTE.

SECTION 14: TRANSPORT INFORMATION

THIS PRODUCT IS NOT A DOT CONTROLLED MATERIAL.

SECTION 15: REGULATORY INFORMATION

29CFR 1910.1200 HAZ COM: DIAMOND CRYSTALS MAY IRRITATE EYES

SARA 313: NOT REPORTABLE

HMIS (USA)

HEALTH HAZARD: 0

FIRE HAZARD: 0

REACTIVITY: 0

PPE: E

NFPA (USA)

HEALTH HAZARD: 0

FIRE HAZARD: 0

REACTIVITY: 0

PPE: GLOVES, LAB COAT, BOOTS, GLASSES



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SECTION 16: OTHER INFORMATION

LUMINESCENCE PLUS™ - DENTAL POLISHING PASTE ARE SOLD FOR PROFESSIONAL USE ONLY.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PARTY PERSONS PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE MATERIAL SAFETY DATA SHEET.

ADDITIONALLY, VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PARTY PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THIS MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED.

FUTHERMORE, VENDEE ASSUMES THE RISK IN USE OF THIS MATERIAL.

<u>CREATION DATE</u>	<u>CREATED BY</u>	
06/21/2011	D. ANDERSON	
<u>REVISION DATE</u>	<u>REVISED BY</u>	<u>REASON FOR REVISION</u>

061163Rev5



SAFETY DATA SHEET

REVISION: 08/26/2015

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LUMINESCENCE® PLUS DENTAL POLISHING PASTE

1. PRODUCT & COMPANY INFORMATION

1.1 PRODUCT IDENTIFIER(S)

PRODUCT NAME: LUMINESCENCE® PLUS - DENTAL POLISHING PASTE
STOCK NUMBER: CFMPSSG5005

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

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

Hazardous Components – None

Glycerol	CAS# 56-81-5	91.6 %
Micron Sized Industrial Diamond	CAS# 7782-40-3	1–6 % by WT
Potassium nitrate	CAS# 7757-79-1	< 4%
Food Grade Components		Remainder

(methyl paraben, propyl paraben, powder agar, gum tragacanth, distilled water)

Composition is proprietary

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

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 Non-flammable

But in case of other fire, see below

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. 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

Soak up with inert absorbent material and dispose of as hazardous waste. 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.

hygroscopic

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

Component	CAS-No.	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10.000000 mg/m3 Remarks	USA. ACGIH Threshold Limit Values (TLV) Upper Respiratory Tract irritation
		TWA	15.000000 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
See Appendix D - Substances with No Established RELs				
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 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. accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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) Appearance	Form: liquid Color: colorless
b) Odor	odorless
c) Odor Threshold	No data available
d) pH	5.5 - 8
e) Melting point/freezing point	Melting point/range: 20 °C (68 °F)
f) Initial boiling point and boiling range	182 °C (360 °F) at 27 hPa (20 mmHg)
g) Flash point	160 °C (320 °F) - closed cup
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lowerflammability or explosive limits	Upper explosion limit: 19 %(V) at 1013 hPa (760 mmHg) Lower explosion limit: 2.7 %(V) at 1013 hPa (760 mmHg)
k) Vapor pressure	0.0033 hPa (0.0025 mmHg) at 50° C (122 °F)
l) Vapor density	3.18 - (Air = 1.0)
m) Relative density	1.25 g/mL
n) Water solubility	soluble
o) Partition coefficient:	noctanol/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

Surface tension 63.4 mN/m at 20 °C (68 °F)

Relative vapor density 3.18 - (Air = 1.0)

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 bases, 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 - 12,600 mg/kg

Inhalation

No data available

LD50 Dermal - Rabbit - > 10,000 mg/kg

No data available

Skin corrosion/irritation Skin – Rabbit

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation Eyes – Rabbit

Result: Mild eye irritation - 24 h

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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 RTECS:

MA8050000

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.

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

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.

12. ECOLOGICAL INFORMATION

<u>12.1 Toxicity</u>	No data available
<u>12.2 Persistence and degradability</u>	No data available
<u>12.3 Bioaccumulative potential</u>	No data available
<u>12.4 Mobility in soil</u>	No data available
<u>12.5 Results of PBT and vPvB assessment</u>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
<u>12.6 Other adverse effects</u>	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 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

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

Chronic Health Hazard

Massachusetts Right To Know Components

Glycerol CAS-No.56-81-5 Revision Date 2007-03-01

Pennsylvania Right To Know Components

Glycerol CAS-No.56-81-5 Revision Date 2007-03-01

New Jersey Right To Know Components

Glycerol CAS-No.56-81-5 Revision Date 2007-03-01

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: 07/01/2015

DATE REVISED: 08/25/2015

PURPOSE OF REVISION: Minor information update