SAFETY DATA SHEET

SECTION 1. INDENTIFICATION

Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
CHEMTREC: 800-424-9300

Product Name: Abrasive Discs
Product Number: 060-014

Effective Date: 3/20/13

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

Primary Routes of Entry

- Inhalation
- Ingestion
- Skin Contact
- Eye Contact

Medical Conditions Aggravated by Exposure

- None expected.

Human Effects and Symptoms of Overexposure:

Skin

Mechanical skin irritation: signs / symptoms may include abrasion, redness, pain, and itching.

Eyes

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.

Ingestions

No health effects are expected.

Inhalation

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. Prolonged or repeated exposure may cause Pneumoconiosis. Signs / symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS#	% by Wt.
Silicon Carbide	409-21-2	5 – 35
Additive	7782-42-5	0 – 1.5
Cured Resin	Mixture	5 – 35
Film Backing	Mixture	35 – 85
PSA Backing	Mixture	0 – 10
Hookit ™ Backing	Mixture	0 - 10

SECTION 4. FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact

Flush eyes with large amounts of water. If signs / symptoms persist, get medical attention.

Skin Contact

Wash affected area with soap and water. If signs / symptoms develop, get medical attention.

Inhalation

Remove person to fresh air. If signs / symptoms develop, get medical attention.

Ingestion

If swallowed no need for first aid is anticipated.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g.: water, foam).

Special Fire Fighting Procedures

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire / Explosion Hazards

Not applicable. None inherent in this product. See Section 10 for hazardous combustion and thermal decomposition information.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

- Personal precautions, protective equipment and emergency procedures – Not applicable.
- Environmental precautions – Not applicable.
- Clean-up methods – Not applicable.

SECTION 7. HANDLING & STORAGE

Handling Precautions

For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. Avoid eye contact with dust or airborne particles. 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. Sparks and particles flying form the product during sanding or grinding can cause injury or fire.

Storage Precautions

Store in cool, dry place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Measures

Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

Respiratory Protection

Avoid breathing of dust created by sanding, grinding, or machining. Assess exposure concentrations of all materials of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face piece or full face air-purifying respirator with N95 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

Eye Protection

Avoid eye contact. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. The following eye protection(s) are recommended: Safety glasses with side shields.

Skin and Body Protection

Avoid skin contact. Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

Additional Protective Measures

Ingestion is not an expected route of exposure. Wash hands after handling and before eating.

Ingredient	Authority	Type	Limit
Silicon Carbide	ACGIH	TWA, as fiber	0.1 fiber/cc
Silicon Carbide	ACGIH	TWA, respirable fraction	3 mg/m^3
Silicon Carbide	ACGIH	TWA, inhalable fraction	10 mg/m^3
Silicon Carbide	OSHA	TWA, respirable fraction	5 mg/m^3
Silicon Carbide	OSHA	TWA, as total dust	15 mg/m^3

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form –** Solid
- **Appearance –** Thin film backed abrasive
- **Color –** Black
- **Odor –** Odorless

Not applicable – Auto-ignition temperature, Flash Point, Upper and Lower Flammable Limits, Boiling Point, Density, Vapor Density, Vapor Pressure, Specific Gravity, PH, Melting Point, Solubility in Water, Evaporation Rate, Viscosity.

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.
Stability – Stable
Materials to Avoid – None known
Conditions to Avoid – None known
Hazardous Decomposition Products – Carbon Monoxide: during combustion, Carbon Dioxide: during combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

Not applicable.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Not determine.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method
The substrate that was abraded must be considered as a factor in the disposal method for this product. Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.
EPA Hazardous Waste Number (RCRA): Not regulated.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** Non - regulated
- **Sea Transport (IMDG):** Non – regulated
- **Air Transport (ICAO/IATA):** Non – regulated

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging.

SECTION 15. REGULATORY INFORMATION (non-mandatory)

United States Federal Regulations

311 / 312 Hazard Categories

Fire hazard – No
Pressure hazard – No
Reactivity hazard – No
Immediate hazard – Yes
Delayed hazard – Yes

Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA regulations, and is exempt from TSCA Inventory listing requirements.

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health –** 1
- **Flammability –** 1
- **Physical Hazard –** 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe
* = Chronic Health Hazard