



### MATERIAL SAFETY DATA SHEET

**Product name:** Joint blades  
**Description:** Diamond cutting wheel  
**Supplier:** Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

### INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	%	TLV:	PEL:	STEL:
Diamond	7782-40-3	<1	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	NE
Nickel/cobalt alloy	NE	>99	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	NE

**Abbreviations:** PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable.

### PHYSICAL DATA

<b>Appearance:</b>	Solid metallic article.	<b>Odor:</b>	None.
<b>Vapor Density: (air = 1)</b>	Not applicable.	<b>Vapor Pressure:</b>	Not applicable.
<b>Boiling Point:</b>	Not applicable.	<b>VOC Content:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable.	<b>Solubility in Water:</b>	Insoluble.
<b>Specific Gravity:</b>	9 - 10	<b>pH:</b>	Not applicable.

### FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point:</b>	Not applicable.	<b>Flammable Limits:</b>	Not applicable.
<b>Extinguishing Media:</b>	Not applicable.		
<b>Special Fire Fighting Procedures:</b>	Not applicable.		
<b>Unusual Fire and Explosion Hazards:</b>	Not applicable.		

### REACTIVITY DATA

<b>Stability:</b>	Stable.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibility:</b>	None known.
<b>Decomposition Products:</b>	None expected.
<b>Conditions to Avoid:</b>	None known.

### HEALTH HAZARD DATA

<b>Known Hazards:</b>	Dusts from materials being sawed, cored, or ground can cause irritation to the nose, throat, and skin. When dusts are not controlled, breathing capacity can be affected leading to coughing, wheezing, and/or shortness of breath. Excessive noise levels can be generated during cutting/coring operations.
<b>Signs and Symptoms of Exposure:</b>	None expected. Dusts generated from material being cut can cause eye, nose, and throat irritation. Long-term overexposure to dusts can lead to respiratory impairment.
<b>Carcinogenicity:</b>	Nickel is considered to be a probable human carcinogen. The nature and use of this product, however, does not pose a cancer risk to humans.
<b>Routes of Exposure:</b>	Inhalation.

**Medical Conditions  
Aggravated by Exposure:**

None anticipated from this product, however, respiratory conditions can be affected by uncontrolled dusts.

**EMERGENCY AND FIRST AID PROCEDURES**

<b>Eyes:</b>	Hold eyelid open and flush with plenty of water to remove dust particles. Do not rub the eyes. CAUTION: If particles penetrate or otherwise become lodged/impaled in the eye, do not attempt to remove. Cover both eyes to prevent natural movement and seek medical attention immediately.
<b>Skin:</b>	Practice good hygiene; i.e. wash with soap and water before eating.
<b>Inhalation:</b>	If symptoms such as wheezing, coughing, shortness of breath, etc. develop, move to fresh air and seek medical attention.
<b>Ingestion:</b>	Not considered to be a route of exposure for this product.
<b>Other:</b>	Seek medical advice if there is any question about the seriousness of the injury/exposure.

**CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT**

<b>Ventilation:</b>	General (natural or mechanically induced fresh air movements that maintain vapor levels below recommended exposure limits). Local exhaust may be required in some instances.
<b>Eye Protection:</b>	Goggles recommended. Safety glasses with side shields may be suitable depending on work conditions.
<b>Hearing Protection:</b>	Recommended for all exposures exceeding 85 dBA. Refer to 29 CFR 1910.95 or 1926.101 as applicable.
<b>Skin Protection:</b>	None normally required.
<b>Respiratory Protection:</b>	Use a NIOSH-approved particulate (e.g. 3M8710) respirator when air movement is inadequate to maintain exposure below recommended levels and when dusts cannot be controlled. Refer to 29 CFR 1910.134 or 1926.103.

**PRECAUTIONS FOR SAFE HANDLING AND USE**

<b>Handling and Storing Precautions:</b>	Maintain good housekeeping practices to prevent accumulation of dusts. Avoid inhalation of dusts as well as prolonged and repeated contact with the skin. Most diamond tools are used along with water to keep blades cool and to decrease airborne contaminants. For dry sawing, maintain adequate ventilation or use local exhaust. Store blades and bits in a dry location.
<b>Spill Procedures:</b>	Not applicable.

**REGULATORY INFORMATION**

<b>Hazard Communication:</b>	This product is considered to be a manufactured "article".
<b>HMS Codes:</b>	Health 1, Flammability 0, Reactivity 0, PPE A (Goggles)
<b>DOT Shipping Name:</b>	Non-regulated
<b>IATA / ICAO Shipping Name:</b>	Non-regulated
<b>TSCA Inventory Status:</b>	Chemical components listed on TSCA inventory.
<b>SARA Title III, Section 313:</b>	This product is classified as an "article" and is not subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
<b>EPA Waste Code(s):</b>	Not regulated by EPA as a hazardous waste
<b>Waste Disposal Methods:</b>	In most cases, metal blades, bits, etc. may generally be disposed of in a landfill. Consult with regulatory agencies or corporate personnel for disposal methods that comply with local, state and federal health and environmental regulations.

**CONTACTS**

<b>Customer Service:</b>	1 800 879 8000	<b>Technical Service:</b>	1 800 879 8000
<b>Health / Safety:</b>	1 800 879 6000	Jerry Metcalf	(x6704)

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