



MSDS No.: 168
Revision No.: 008
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MATERIAL SAFETY DATA SHEET

Product name: Abrasive Blades and Wheels
Description: Aluminum oxide grinding and cut off blades/ wheels
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:
Aluminum Oxide	01344-28-1	1 mg/m ³ (R)	5 mg/m ³ (R)	NE
Sodium Aluminum Fluoride	15096-52-3	NE	2.5 mg/m ³	NE
Zirconium Dioxide	7440-67-7	5 mg/m ³	5 mg/m ³	NE
Silicon Carbide	00409-21-2	3 mg/m ³ (R)	NE	NE
Fiberglass mesh	65997-17-3	NE	NE	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. (R) indicates "as respirable fraction".

PHYSICAL DATA

Appearance:	Solid; dark colored discs.	Odor:	None.
Vapor Density: (air = 1)	Not applicable.	Vapor Pressure:	Not applicable.
Boiling Point:	Not applicable.	VOC Content:	Not applicable.
Evaporation Rate:	Not applicable.	Solubility in Water:	Not applicable.
Specific Gravity:	Not applicable.	pH:	Not applicable.

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Not applicable.	Flammable Limits:	Not applicable.
Extinguishing Media:	As appropriate for surrounding fire.		
Special Fire Fighting Procedures:	None known.		
Unusual Fire and Explosion Hazards:	None known.		

REACTIVITY DATA

Stability:	Stable.
Hazardous Polymerization:	Will not occur.
Incompatibility:	Not applicable.
Decomposition Products:	Not identified. Dusts may be generated during use; see below. Do not exceed exposure limits.
Conditions to Avoid:	Acids, solvents, extreme heat or cold, excessive moisture or humidity.

HEALTH HAZARD DATA

Known Hazards:	Regular exposure to grinding dusts may cause respiratory problems, mucous membrane irritation, or aggravate pre-existing conditions. Prolonged exposure to fluorides may cause skeletal or dental fluorosis. Prolonged exposure to silica generated when cutting/grinding concrete, stone, masonry, etc, may cause silicosis or cancer. Excessive noise levels can be generated during cutting / grinding operations.
Signs and Symptoms of Exposure:	Dusts generated from material being cut can cause eye, nose, and throat irritation. Long-term overexposure to dusts can lead to respiratory impairment.
Routes of Exposure:	Inhalation.
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	Skin and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush eyes with plenty of water. Do not rub the eye. Contact a physician.
Skin:	Wash with soap and water. Contact a physician if symptoms persists.
Inhalation:	Move victim to fresh air. Contact a physician if symptoms persist.
Ingestion:	Not considered to be a route of exposure.
Other:	Hearing protection devices may be required.
	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	Local ventilation may be required to maintain exposures below recommended levels.
Eye Protection:	Safety glasses with side shields.
Skin Protection:	Leather gloves and other protective clothing as required to protect skin.
Respiratory Protection:	Use a NIOSH-approved dust/mist respirator if exposure limits for dusts are exceeded or ventilation is not adequate to control dusts.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	Store in a dry area. Handle with care to avoid breakage or crushing. If dropped, inspect carefully to detect any cracks or damage. Do not use damaged blades/wheels.
Spill Procedures:	Not applicable.

REGULATORY INFORMATION

Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
HMIS Codes:	Health 1, Flammability 0, Reactivity 0, PPE A (safety glasses)
DOT Shipping Name:	Not regulated.
ICAO / IATA Shipping Name:	Not regulated.
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product is classified as an "article" and is not subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste
Waste Disposal Methods:	Not a regulated waste. Disposal in a landfill is acceptable.

CONTACTS

Customer Service:	1 800 879 8000	Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000	Jerry Metcalf	(x1003704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.