

MSDS No.: 210 Revision No.: 004 Revision Date: 04/05/00 Page: 1 of 2

MATERIAL SAFETY DATA SHEET

Carbon Steel Wire Brushes Product name: **Description:** Cup Wheels and Flat 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: (mg/m³)	PEL: (mg/m³)	STEL:
Iron	7439-89-6	NE	NE	NE
Manganese	7439-96-5	5	5	NE
Carbon	7440-44-0	NE	NE	NE
Silicon	7440-21-3	10	10 (T); 5 (R)	NE
Chromium	7440-47-3	0.5	1.0	NE
Trace Elements	NA	NE	NE	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. These are expressed as an 8hour time-weighted average. NE = None Established. NA = Not Applicable. (T) indicates "as total dust". (R) indicates "as respirable fraction". mg/m³ = milligrams per cubic meter.

PHYSICAL DATA

Gray metal Odor: None **Appearance:**

Vapor Density: (air = 1) **Vapor Pressure:** Not applicable Not applicable **VOC Content: Boiling Point:** Not applicable Not applicable **Evaporation Rate:** Not applicable **Solubility in Water:** Not applicable **Specific Gravity:** 7.6 - 7.9:Ha Not applicable

FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not applicable Flammable Limits: Not applicable

Not applicable **Extinguishing Media:** Special Fire Fighting Not applicable

Procedures:

Unusual Fire and Explosion Not applicable **Hazards:**

REACTIVITY DATA

Stability: Stable. **Hazardous Polymerization:** Will not occur.

Incompatibility: Avoid contact with acids.

Decomposition Products: None expected from normal use of this product.

Conditions to Avoid: None known.

HEALTH HAZARD DATA

Known Hazards: None expected from normal use of this product; however, dusts (such as scale, rust, dirt, slag, etc.) generated during brushing operations can cause respiratory irritation. Excessive

noise levels can be generated during brushing operations.

Signs and Symptoms of

Exposure:

None expected from this product; however, dusts generated from brushing operations can lead to wheezing, coughing, and respiratory irritation if dusts are not adequately controlled.

Routes of Exposure: Inhalation (i.e. from dusts generated during brushing operations).

Carcinogenicity: Chromium has been identified by IARC and NTP as a potential cancer causing agent. Ordinary use of this product does not present a cancer hazard from exposure to chromium.

Medical Conditions
Aggravated by Exposure:

Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Hold eyelids apart and flush with plenty of water to remove particles. Do not rub the eye.

CAUTION: For imbedded particles, cover both eyes and have the patient remain calm to

avoid movement of the eyeball. Contact a physician immediately.

Skin: Practice good hygiene; i.e. wash with soap and water after use and before eating.

Inhalation: Move victim to fresh air. Call a physician if symptoms persist.

Ingestion: Not considered a route of exposure for this product.

Other: 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: General (i.e. natural or mechanically induced fresh air movements that maintain vapor

concentrations below recommended exposure limits) ventilation is usually adequate.

Eye Protection: Safety goggles or full face shield as appropriate for the operations.

Skin Protection: None normally required.

Respiratory Protection: None normally required. Use a NIOSH-approved dust/mist respirator when ventilation is not

adequate to control dusts generated from brushing operations.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing

Precautions:

During brushing operations, particles will be propelled through the air; therefore, all personnel in the work area must wear appropriate personal protective equipment. Avoid exerting excessive pressure when using a power brush as this can result in damage and/or

excessive wear on the brush.

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.

Health 1, Flammability 0, Reactivity 0, PPE A (Goggles)

DOT Shipping Name:

ICAO / IATA Shipping Name:

Not regulated.

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: Consult with regulatory agencies or corporate personnel for disposal methods that comply

with local, state, and federal health and environmental regulations.

CONTACTS

 Customer Service:
 1 800 879 8000
 Technical Service:
 1 800 879 8000

Health / Safety: 1 800 879 6000 Jerry Metcalf (x6704)

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.