

MATERIAL SAFETY DATA SHEET

COMPANY Husqvarna Construction Products 10250 Two Notch Rd. Columbia, SC 29229	ISSUE DATE 1/11/06 PHONE NUMBER (803) 788-8860
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SECTION 1 – MATERIAL IDENTIFICATION

TRADE NAME Diamond Saw Blades, Core Bits, Diamond Segments, Diamond Wire
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SECTION 2 – COMPOSITION

Note: Steel (Iron > 95%) is greater than 74 % of the total weight of a saw blade or core drill bit.

Core Composition Chemical and Common Name	CAS number	Weight Percent	OSHA PEL (mg/m3)	NIOSH REL (mg/m3)	Hazardous Form	Carcinogen
Carbon Steel (1005-1095)						
Iron	7439-89-6	>95	10.0	NA	as iron oxide fume	N

These percentages are representative of the diamond containing segment portion only.

Segment Composition Chemical and Common Name	CAS number	Weight Percent	OSHA PEL (mg/m3)	NIOSH REL (mg/m3)	Hazardous Form	Carcinogen
Chromium	7440-47-3	0-1	0.5	0.5	as metal	Y
Cobalt	7440-48-4	0-99	0.1	.05	as dust/fume	Y
Copper	7440-50-8	0-80	1.0	1.0	as copper dust	N
Diamond	7782-40-3	2-20	NA	NA		NA
Iron	7439-89-6	0-60	10.0	NA	as iron oxide fume	N
Manganese	7439-96-5	0-5	5.0	1.0	as manganese	N
Molybdenum	7439-98-7	0-6	15.0	5.0	soluble moly compound	N
Nickel	7440-02-0	0-60	1.0	.015	as nickel fume	Y
Phosphorous	7723-14-0	0-2	0.1	0.1	as phosphorous	N
Silver	7440-22-4	0-10	0.01	0.01	as metal dust/fume	N
Tin	7440-31-5	0-20	2.0	2.0	as oxide	N
Titanium	7440-32-6	0-1	15.0	NA	as dust/fume	N
Tungsten	7440-33-7	0-30	15.0	5.0	as tungsten dust	N
Tungsten carbide	12070-12-1	0-70	5.0	.05/0.015	as cobalt/nickel dust	Y

Note: Local and state authorities may impose higher standards. For example, see Cal OSHA in Section 10.

SECTION 3 – PHYSICAL DATA

MATERIAL (At Normal Conditions) Solid	APPEARANCE AND ODOR Metallic Appearance: No Odor
MELTING POINT > 1200 degree F (630 degree C)	SPECIFIC GRAVITY > 7 (H2O = 1)

SECTION 4 – FIRE AND EXPLOSIVE**SPECIAL FIRE FIGHTING PROCEDURES**

Diamond Saw Blades, Core Bits, Diamond Wire and Diamond Segments in the manufactured state present no fire or explosive hazard.

SECTION 5 – REACTIVITY DATA**STABILITY**

Stable

CONDITIONS TO AVOID

Reacts with strong acids to form hydrogen gas

HAZARDOUS DECOMPOSITION PRODUCTS

Metallic fumes or dust may be produced during welding, brazing, grinding and machining.

SECTION 6 – ENVIRONMENTAL**SPILL OR LEAK PROCEDURES** NA

WASTE DISPOSAL METHODS Disposal must comply with applicable federal, state and local disposal laws.

SECTION 7 – HEALTH HAZARD DATA

These products in their manufactured state do not present an inhalation or contact hazard. Operations such as grinding, cutting, welding or brazing may release fumes and dust, which may present health hazards.

Proper protective equipment is recommended (see **SECTIONS 9 & 10**).

Dust generated during the use of diamond saw blade, core bit or diamond wire sawing is normally from the material being cut. Consult the MSDS for the material being cut for further information.

WATCH FOR EFFECTS OF OVER EXPOSURE:

Acute – Dust or fumes may cause irritation to eyes, nose, or throat. Over-exposure to dusts generated during use can cause coughing or wheezing and shortness of breath.

Exposure to welding or brazing fumes may leave a metallic taste in mouth. Inhalation of metal oxides produced in welding or brazing may produce flu-like symptoms commonly known as “metal fume fever”.

Chronic – Repeated over-exposure to dusts and fumes generated during use can create the health hazards described below:

COBALT (metal as dust and fume)*:

Lung inflammation and damage, and diffuse pulmonary fibrosis from inhalation. The National Toxicology Program (NTP) has identified Cobalt as a potential carcinogen.

COPPER (dust and fume, Cu)*:

Inhalation may cause nose and throat irritation and prolonged contact dermatitis.

CHROMIUM (metal)*:

May enter and affect the body through inhalation, ingestion, or skin contact. The NTP (National Toxicology Program) and IARC (International Agency for Research on Cancer) report they possess sufficient evidence to establish a causal relationship for human cancer from chromium.

IRON (oxide as dust and fume)*:

Inhalation of iron oxide fume or dust may result in a condition known as siderosis.

MANGANESE (compounds and fume as Mn)*:

Inhalation may result in symptoms such as headache, restlessness, neurological dysfunction, or muscular weakness.

NICKEL (metal and other compounds as Ni)*:

Inhalation may result in inflammation of the respiratory tract and fever. The International Agency for Research on Cancer (IARC), and the National Toxicology Program (NTP) have identified Nickel as a potential carcinogen.

SILVER (metal dust and soluble compounds as Ag)*:

May cause irritation to eyes, nasal, septum, throat and skin, and may cause intestinal disturbance.

TIN (metallic flake, powder)*:

May cause eye, skin, and respiratory system irritation.

TUNGSTEN CARBIDE*:

Tungsten carbide may contain trace amounts of Cobalt or Nickel. The International Agency for Research on Cancer (IARC), and the National Toxicology Program (NTP) have identified Tungsten Carbide as a potential carcinogen.

SILICA (airborne particles of respirable size, not a direct component of product).

During the use of this product the generation of silica, crystalline (airborne particles of respirable size) may be released from the material being cut.

Silica, Crystalline (airborne particles of respirable size) are known to the State of California to cause cancer and/or birth defects or other reproductive harm.

* The information contained in this MSDS was obtained from various sources including OSHA, NIOSH and MSDS provided by material suppliers.

SECTION 8 – EMERGENCY AND FIRST AID PROCEDURES

Inhalation – If symptoms of inhalation over-exposure develop; remove from exposure and seek medical attention.

Skin – If symptoms of irritation or rash develop; thoroughly wash affected area with soap and water and, if the symptoms persist, seek medical attention.

Eyes – If eye irritation occurs, flush with copious amounts of water and if irritation persists seek medical attention.

SECTION 9 – PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Use of an appropriate NIOSH-approved respirator for operators and bystanders is mandatory if airborne concentrations exceed the appropriate OSHA PEL and TLV levels and is always highly recommended. (See OSHA 29 CFR 1910.1000 - air contaminants; 1910.134- respirators).

Use of adequate ventilation and/or water spray mist to reduce generated dust concentration is recommended wherever possible (See OSHA 29 CFR 1910.94 - ventilation).

GENERAL PROTECTIVE REQUIREMENTS

The use of eye and face protection is mandatory when cutting (see OSHA 29 CFR 1910.133 – eye and face protection).

The use of hearing protection is mandatory to control noise exposure (see OSHA 29 CFR 1910.95 – noise exposure).

The use of skin protection and good hygiene practice is mandatory to control skin exposure (see OSHA 29 CFR 1910.138 – skin exposure).

The use of all machine safety guards is mandatory (see OSHA 1910.211 – 222 – safety guards).

SECTION 10 – ADDITIONAL REGULATORY INFORMATION**California Proposition 65 Notice:**

This product contains a chemical or chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

The use of this product can cause the exposure to a chemical or chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

CALIFORNIA OSHA INFORMATION

Segment Composition Chemical and Common Name	CAS number	Weight Percent	CAL OSHA PEL (mg/m3)	Hazardous Form	CA Proposition 65
Chromium	7440-47-3	0-1	0.5	as metal	No
Cobalt	7440-48-4	0-99	0.05	as dust/fume	Yes
Copper	7440-50-8	0-80	1.0	as copper dust	No
Diamond	7782-40-3	2-20	NA		No
Iron	7439-89-6	0-60	5.0	as iron oxide fume	No
Manganese	7439-96-5	0-5	5.0	as manganese	No
Molybdenum	7439-98-7	0-6	10.0	soluble moly compound	No
Nickel	7440-02-0	0-60	1.0	as nickel fume	Yes
Phosphorous	7723-14-0	0-2	0.1	as phosphorous	No
Silver	7440-22-4	0-10	0.01	as metal dust/fume	No
Tin	7440-31-5	0-20	2.0	as oxide	No
Titanium	7440-32-6	0-1	15.0	as dust/fume	No
Tungsten	7440-33-7	0-30	5.0	as tungsten dust	No
Tungsten carbide	12070-12-1	0-70	0.05/1.0	as cobalt/nickel dust	Yes

DISCLAIMER

The information contained in this MSDS was obtained from various sources including OSHA, NIOSH and MSDS provided by material suppliers. We make no representation or warranty, express or implied, regarding the accuracy and correctness. The conditions and methods of handling and storage, use and disposal of the product by the end user are beyond our control and knowledge, therefore, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected to the use, storage, handling or disposal of the product.