

## **Safety Data Sheet**

### **Power Brushes with Carbon Steel Wire**

**Date Issued - 6/1/2018**

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

##### **PRODUCT DESCRIPTION:**

Power Brushes with Carbon Steel Wire

##### **GENERAL USE:**

Material removal, surface finishing

**FORNEY SKUs: 60001, 60002, 60003, 60004, 60005, 60006, 60013, 60014, 60015, 60016, 60017**

##### **MANUFACTURER ADDRESS:**

Forney Industries, Inc.

2057 Vermont Drive

Fort Collins, CO 80525

##### **CONTACT NUMBER:**

800-521-6038

##### **24 HOUR EMERGENCY TELEPHONE NUMBER:**

800-535-5053

#### **2. HAZARD IDENTIFICATION**

##### **EMERGENCY OVERVIEW**

Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes.

##### **GHS Label requirements**

##### **Pictogram**

None

##### **Signal Word**

None

##### **Hazard Statement**

A greater hazard, in most cases, is the exposure to the dust/fumes from the material being brushed and the potential hazard from this exposure must be evaluated.

### 3.COMPOSITION/INGREDIENT INFORMATION

Ingredients	CAS	Weight %	EC#
Iron	7439-89-6	95-99	231-096-4
Carbon	7440-44-0	0.01-1.1	231.153-3
Manganese	7439-96-5	0.25-1.65	231-105-1
Phosphorus	7723-14-0	0.00-0.04	231-768-7
Silicon	7440-21-3	0.0-1.6	231-130-8
Sulfur	7704-34-9	0.000-0.035	231-722-6
Lead	7439-92-1	0.000-0.005	231-096-4
Vanadium	7440-62-2	0.00-0.35	231-171-1
Chromium	7440-47-3	0.0-1.5	231-157-5
<b>Optional Coatings</b>			
Petroleum Distillates	64742-52-5	0.0-1.0	265-155-0
Phosphate	14265-44-2	0.0-1.0	
Borax	1303-96-4	0.0-1.0	215-540-4
Lime	1305-62-0	0.0-1.0	215-137-3
Drawing Lubricant	1592-23-0	0.0-1.0	

### 4. FIRST AID MEASURES

#### General Measures

Under normal handling and use, exposure to solid forms of this material present few health hazards. Subsequent operations such as grinding, melting or welding may produce potentially hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

#### Inhalation

If overexposed to dust, remove victim to fresh air and get medical attention.

#### Skin Contact

Wash dust from skin with soap and water. Launder contaminated clothing before reuse.

#### Eye Contact

Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation occurs and persists.

#### Ingestion

If dust is swallowed, seek medical attention.

#### Most Important Symptoms/Effect, Acute and Delayed

Use may generate dust that may cause eye and respiratory tract irritation. Dust may be harmful by inhalation and ingestion.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

None known.

## **5. FIRE FIGHTING MEASURES**

### **Extinguishing Media**

Use any media that is appropriate for the surrounding fire.

### **Fire Fighting Procedure**

None needed.

### **Special Protective Equipment**

Full face, self-contained breathing apparatus and full protective clothing when necessary.

### **Hazardous Combustion Products**

This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

Minimize generation of dust. Use appropriate protective equipment to avoid inhalation and eye contact if dust is generated.

### **Environmental Precautions**

Notify authorities as required by local, state and federal regulations.

### **Methods for Clean Up**

Pick up, sweep up or vacuum any dust, and place in a container for disposal.

### **Reference to Other Sections**

Refer to Section 8 for personal protective equipment and Section 13 for proper disposal.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Consider potential exposure to components of the base materials or coatings being brushed, machined or ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

### **Conditions for Safe Storage**

Store in a dry location. See section 10 for more information on incompatible materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	OSHA / PEL	ACGIH / TLV
Iron	No exposure limit established	No exposure limit established
Carbon	15 mg/m <sup>3</sup>	
Manganese	5 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Phosphorus	0.1 mg/m	0.1 mg/m
Silicon	5 mg/m <sup>3</sup> (respirable)	5 mg/m <sup>3</sup> (respirable)
Sulfur	13 mg/m <sup>3</sup> (as SO <sub>2</sub> )	0.25 ppm (as SO <sub>2</sub> )
Lead	0.5 mg/m <sup>3</sup>	0.5 mg/ m <sup>3</sup>
Vanadium	0.5 mg/m <sup>3</sup> (as V <sub>2</sub> O <sub>5</sub> )	0.5 mg/m <sup>3</sup> (as V <sub>2</sub> O <sub>5</sub> )
Chromium	1 mg/m <sup>3</sup>	0.5 mg/ m <sup>3</sup>
Optional Coatings		
Petroleum Distillates	5 mg/m <sup>3</sup> (as oil mist)	5 mg/m <sup>3</sup> (as oil mist)
Phosphate	No data	No data
Borax	10 mg/m <sup>3</sup>	1 mg/ m <sup>3</sup>
Lime	15 mg/ m <sup>3</sup>	
Drawing Lubricant	10 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>

**Note: Consider also components of base materials and coatings being worked.**

### Engineering Controls

Ensure adequate ventilation to maintain exposures below occupational limits. Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

### Respiratory Protection

Use an approved respirator if exposure limits are exceeded or where dust exposures are excessive. Consider the potential for exposure to components of the coatings or base material being ground in selecting proper respiratory protection. Refer to local regulations for specific standards where appropriate. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with applicable regulations and good industrial hygiene practice.

### Hand Protection

Cloth or leather gloves recommended.

### Eye Protection

Safety goggles or face shield over safety glasses with side shields

### Skin Protection

Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Characteristic	Value
Appearance	Gray-black solid brushes
Form	Solid in various forms
Color	Gray-Black
Odor	Odorless
Odor Threshold	Not determined
pH	N/A
Melting Point	~2,500°F – 2,650°F
Boiling Point	No data
Flash Point	N/A
Evaporation Rate	N/A
Flammability	No data
Upper Flammable Limit	No data
Lower Flammable Limit	No data
Vapor Pressure	No data
Vapor Density	N/A
Specific Gravity	No data
Solubility in H <sub>2</sub> O	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	N/A

## 10. STABILITY AND REACTIVITY

### Reactivity

No data

### Chemical Stability

Stable. Rust may occur.

### Conditions to Avoid

Avoid creating or accumulating fines or dust

### Incompatible Materials

Acids

### Hazardous Decomposition Products

Dust from brushing and grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being brushed or coatings applied to the base material.

### Hazardous Polymerization

No data

## 11. TOXICOLOGICAL INFORMATION

### Likely Route of Exposure

Inhalation, skin, eyes. Product as shipped does not present an inhalation hazard; however subsequent operations may create dusts or fumes which could be inhaled.

### Eyes

Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.

### Skin Contact

None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

### Inhalation

Dust may cause respiratory irritation. May be harmful by inhalation. Prolonged inhalation may cause lung damage.

### Ingestion

None expected under normal use conditions. May be harmful if swallowed.

### Acute Toxicity

No data

### Reproductive Toxicity

Not expected to cause reproductive toxicity.

### Carcinogenicity

None of the components of this product are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

### Germ Cell Mutagenicity

Not expected to be a mutagen

### Repeat Exposure

Long-term overexposure to respirable dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Chronic effects may be aggravated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being brushed. Most of the dust generated during brushing is from the base material being brushed and the potential hazard from this exposure must be evaluated.

## 12. ECOLOGICAL INFORMATION

### Toxicity

No ecological data is available for this product. This product contains ingredients that are toxic to aquatic organisms with long-lasting effects. Avoid environmental releases.

### Persistence and Degradability

No data

### Bio-Accumulative Potential

No data

### Mobility in Soil

No data

### Results of PBT and vPvB Assessment

Not applicable

### Other Adverse Effects

No data

## 13. DISPOSAL CONSIDERATIONS

### General

Dispose of in accordance with Federal, State and Local regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

### Packaging

Dispose of in accordance with Federal, State and Local regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

#### **14. TRANSPORTATION INFORMATION**

DOT/ADR/IATA/IMDG Regulations:

Not regulated

UN Number:

N/A

UN Proper Shipping Name:

N/A

Transport Hazard Class:

N/A

Packing Group:

N/A

Marine Pollutant:

N/A

Special Precautions:

N/A



## 15. REGULATORY INFORMATION

### US Regulations

SARA Section 311/312

Hazard Categories: Chronic Health

### SARA Section 313:

Some products contain the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Toxic Chemical Release Reporting):  
None.

### California Proposition 65

WARNING: You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This product & the dust it creates contains chemicals known in the state of California to cause cancer and birth defects or other reproductive harm.

### TSCA Listed

All components are listed.

### Regulation (EC) No 1272/2008 (CLP)

N/A

### Canada WHMIS Classification (CPR, SOR/88-66)

N/A

### HMIS Rating

Health: 1

Flammability: 0

Reactivity: 0

### NFPA Rating

Health: 1

Flammability: 0

Reactivity: 0

### Chemical Safety Assessment

A chemical safety assessment has not been carried out.

## **16. OTHER INFORMATION**

Revision Number 1

Supersedes Date 2018/06/1

Prepared By

**NIPB**

### **Manufacturer Disclaimer**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Osborn shall not be held liable for any damages resulting from handling or from contact with the above product.