



Safety Data Sheet

Power Brushes with Zinc Plated Steel Wire

Date Issued - 6/1/2015

SDS Number - PB-06

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION:

Power Brushes with Zinc Plated Steel Wire

GENERAL USE:

Material removal, surface finishing

MANUFACTURER ADDRESS:

Osborn
2350 Salisbury Road
Richmond, Indiana 47374, U.S.A.

CONTACT NUMBER:

765-965-5333

24 HOUR EMERGENCY TELEPHONE NUMBER:

Chemtrec 800-424-9300

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

<i>Ingredients</i>	<i>CAS</i>	<i>Weight %</i>	<i>EC#</i>
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
Phosphorous	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
Zinc	7440-66-6	0.0-9.0	231-175-3
<i>Optional Coatings</i>			
Petroleum Distillates	64742-52-5	0.0-1.0	265-155-0
	64741-86-2	0.0-1.0	265-088-7
	64741-97-5	0.0-1.0	265-098-1
Drawing Lubricant	1592-23-0	0.0-1.0	
	822-16-2	0.0-1.0	212-490-5



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

Inhalation of excessive fume or dust concentrations may result in respiratory tract irritation. Move person to fresh air until recovered.

Skin Contact

Remove contaminated clothing, brush material off skin, and wash affected area with soap and water. Seek medical attention if symptoms persist.

Eye Contact

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

Ingestion

Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

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

No other relevant information available.



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 does not present fire or explosion hazards as shipped. Small chips, fine turnings, and dust from processing may be ignitable. May emit metal oxide fumes under fire conditions. 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. Do not allow to enter drains or to be released to the environment.

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 14 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

<i>Exposure Limits:</i>	<i>OSHA/PEL</i>	<i>ACGIH/TLV</i>
Iron	No exposure limit established	No exposure limit established
Carbon	15 mg/m ₃	
Manganese	5 mg/m ₃	0.2 mg/m ₃
Phosphorous	0.1 mg/m ₃	0.1 mg/m ₃
Silicon Sulfur Lead	5 mg/m ₃ (respirable)	5 mg/m ₃ (respirable)
Vanadium	13 mg/m ₃ (as SO ₂)	0.25 ppm (as SO ₂)
Chromium	0.5 mg/m ₃	0.5 mg/m ₃
Lead	0.5 mg/m ₃ (as V ₂ O ₅)	0.5 mg/m ₃ (as V ₂ O ₅)
Vanadium	1 mg/m ₃	0.5 mg/m ₃
Zinc	5 mg/m ₃ (as zinc oxide fume)	5 mg/m ₃ (as zinc oxide fume)
Petroleum Distillates	5 mg/m ₃ (as oil mist)	5 mg/m ₃ (as oil mist)
Drawing Lubricant	10 mg/m ₃	10 mg/m ₃

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

<i>Characteristic</i>	<i>Value</i>
Appearance	Silver-Grey solid brushes
Form	Solid in various forms
Color	Gray-Black
Odor	Odorless
Odor Threshold	Not determined
pH	N/A
Melting Point	~2500°F – 2650°F
Boiling Point	No data
Flash Point	Non-Combustible
Evaporation Rate	N/A
Flammability	Not flammable
Upper Flammable Limit	N/A
Lower Flammable Limit	N/A
Vapor Pressure	No data
Vapor Density	N/A
Specific Gravity	7
Solubility in H ₂ 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

Not reactive

Chemical Stability

Stable under recommended storage conditions.

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. Under high heat metal oxide fumes may form.

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

No data

Germ Cell Mutagenicity

Not expected to be a mutagen

Repeat Exposure

Iron

Irritating to the respiratory tract, iron compounds may cause pulmonary fibrosis if dusts are inhaled. Inhalation of large amounts may cause iron pneumoconiosis. Chronic inhalation of finely divided powder may cause chronic iron poisoning and pathological deposition of iron in the body tissue. Ingestion may cause vomiting, diarrhea, pink urine, black stool, and liver damage. Iron compounds may cause damage to the kidneys.

Chromium

Although much is known about health effects of chromium compounds, the health effects of chromium metal, Cr(0), is not well studied. Due to insolubility most elements in their metallic state are not considered to be serious health hazards.



11. TOXICOLOGICAL INFORMATION - CONTINUED

Manganese

Chronic inhalation exposure of humans to high levels of manganese may result in a syndrome called manganism which typically begins with feelings of weakness and lethargy and progresses to the other symptoms such as gait disturbances, clumsiness, tremors, speech disturbances, a mask like facial expression and psychological disturbances. Manganese is an essential micronutrient in humans.

Silicon

Inhalation or contact with silicon dusts may cause irritation. There is no available data to show any toxic effects of elemental silicon.



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

Not applicable

Results of PBT and vPvB Assessment

Not applicable

Other Adverse Effects

Not applicable

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

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: 0

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 0

Flammability: 0

Reactivity: 0

Chemical Safety Assessment

A chemical safety assessment has not been carried out.



Safety Data Sheet
Date Issued – June 1ST, 2015

Osborn SDS Number: PB-06
Power Brushes with Zinc Plated Steel Wire

16. OTHER INFORMATION

Revision Number 1

Supersedes Date 2015/06/24

Prepared By
Osborn

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.