

Safety Data Sheet

Wire Brushes

Issue Date:03/01/2019

1. Product and Company Identification

GHS Product Identifier: Power Brushes and Scratch Brushes with Carbon Steel Wire

Manufacturer/Supplier

Supplier: JET EQUIPMENT & TOOLS
Address: 49 Schooner Street, Coquitlam , BC Canada
Telephone: 604-523-8665
Fax: 604-523-7691

2. Hazards Identification

Classification

Not applicable

Abrasives are articles and not dangerous substances or mixtures according to Regulation (EC) N° 1272/2008. See also section 8 and 16.

Label elements

Abrasives are articles and not dangerous substances or mixtures and therefore no labelling is required according to Regulation (EC) N° 1272/2008.

Other hazards

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

3. Composition/Information on Ingredients

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
Optional Coatings			
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 exposed to dust from grinding: Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if breathing is difficult or irritation persists.

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

Eye contact: Do not rub. Flush eyes thoroughly with plenty of water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

Ingestion: If grinding dust is swallowed, seek medical attention.

Most important symptoms/effects, acute and delayed: Eye and skin contact with grinding dust may cause mechanical irritation. Inhalation of dust may cause dizziness, headache, and other central nervous system effects. Prolonged inhalation of dust or fumes from this product may cause perforation of the nasal septum and lung damage. Exposure to dust generated from processing the base material or coatings may present additional health hazards. This product contains titanium dioxide, which are suspected of causing cancer based on animal studies. Risk of cancer depends on duration and level of exposure.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is generally not required.

5. Fire Fighting Measure

Suitable (and unsuitable) extinguishing media: Use any media that is appropriate for the surrounding materials.

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

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

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.

Methods and materials for containment and cleaning up: Pick up, sweep or vacuum any dust and place in a container for

7. Handling and storage

Fire and Explosion protection: No special measures

Storage: Store in a dry location, avoid significant temperature fluctuations.

8. Exposure Controls/Personal Protection

General Protection Measures:

Ingredients	OSHA / PEL	ACGIH / TLV
Iron	No exposure limit established	No exposure limit established
Carbon	15 mg/m ³	
Manganese	5 mg/m ³	0.2 mg/m ³
Phosphorus	0.1 mg/m	0.1 mg/m
Silicon	5 mg/m ³ (respirable)	5 mg/m ³ (respirable)

Sulfur	13 mg/m ³ (as SO ₂)	0.25 ppm (as SO ₂)
Lead	0.5 mg/m ³	0.5 mg/ m ³
Vanadium	0.5 mg/m ³ (as V ₂ O ₅)	0.5 mg/m ³ (as V ₂ O ₅)
Chromium	1 mg/m ³	0.5 mg/ m ³
Optional Coatings		
Petroleum Distillates	5 mg/m ³ (as oil mist)	5 mg/m ³ (as oil mist)
Phosphate	No data	No data
Borax	10 mg/m ³	1 mg/ m ³
Lime	15 mg/ m ³	
Drawing Lubricant	10 mg/m ³	10 mg/ m ³

Appropriate engineering controls: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

Individual protection measures, such as personal protective equipment:

Respiratory protection: Use NIOSH 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 OSHA's specific standards for lead, cadmium, etc. where appropriate. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin protection: Cloth or leather gloves recommended.

Eye protection: Safety goggles or safety glasses with side shields are recommended where splashing is possible.

Hand Protection: Cloth or leather gloves recommended.

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

9. Physical & 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 ₂ O	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	N/A

10. Chemical Stability & Reactivity Information

Reactivity: No data

Chemical stability: Stable. Rust may occur

Possibility of hazardous reactions: Will not occur.

Conditions to avoid: None known

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. Transport Information

No Specific regulations for transportation are required. Make sure to protect products from damage during transportation

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. Additional Information

DISCLAIMER:

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof: however, the Company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof.