

FLEXOVIT USA INC.

SAFETY DATA SHEET

SECTION 1 – Identification of the Product and Company

1.1 Product Name : Power Brushes with Carbon Steel Wire

1.2 Product use: material removal, surface finishing

1.3 Company Details : Flexovit USA Inc.

Address : 1305 Eden-Evans Center Rd.
Angola, NY 14006

Phone : 1-716-549-5100

Fax : 1-716-549-4078

SECTION 2 – Hazard Information

2.1 Precautionary statements

Use appropriate protective equipment to avoid inhalation & eye contact

2.2 Description of Hazards

Dust generated may cause eye & respiratory irritation

SECTION 3 – Composition

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			
Ingredients	CAS	Weight %	EC#
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
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	
	822-16-2	0.0-1.0	212-490-5

SECTION 4 – First Aid

4.1 First Aid for Exposure

- Route of Entry:** Inhalation: If overexposed to dust, remove victim to fresh air & get medical attention
- Route of Entry:** Skin: Wash dust from skin with soap & water. Launder contaminated clothing before reuse
- Route of Entry:** Ingestion: If dust is swallowed, seek medical attention
- Route of Entry:** Eye: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation occurs & persists.

4.2 Signs and Symptoms of Exposure: Use may generate dust that may cause eye & respiratory tract irritation. Dust may be harmful by inhalation & ingestion

SECTION 5 – Fire Fighting Measures

- 5.1 Means of Extinction:** Use any media appropriate for the surrounding fire
- 5.2 Unusual Fire or Explosion Hazards:** This product is not combustible, 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.
- 5.3 Special Fire Fighting procedures:** Toxic fumes may occur. Use respiratory protective equipment.

SECTION 6 – Accidental release measures

Pick up, sweep up or vacuum any dust, place in a container for disposal.
Use of gloves to clean up is recommended

SECTION 7 – Storage, Handling and Use Procedures

Use only with adequate ventilation. Store in a dry location

SECTION 8 – Personal Protective Control Measures

Before use risk assessment should be performed and individual protection measures adopted accordingly.

8.1 Exposure Limits: Keep limits of the following components under surveillance (Observe the regional official regulations for dust)

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 ³	0.1 mg/m ³
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	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		
Ingredients	OSHA / PEL	ACGIH / TLV
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

Note: Hazardous dust of work piece material may be generated during use of power brushes

8.2 Exposure control and limitations

8.2.1 Exposure control and limitations of the work environment

Observe the regional official regulations for dust

8.2.1.1 Respiratory Protection: Use respiratory equipment

(Type depends on specific application and material being brushed)

8.2.1.2 Hand Protection: Wear protective gloves

(Type depends on specific application and material being brushed)

8.2.1.3 Eye Protection: Wear protective goggles or face shield over safety glasses with side shields

(Type depends on specific application and material being brushed)

8.2.1.4 Hearing Protection: Use hearing protection

(Type depends on specific application and material being brushed)

8.2.1.5 Body Protection: Use protective clothing

(Type depends on specific application and material being brushed)

SECTION 9 – Physical and Chemical Characteristics

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

SECTION 10 – Stability and Reactivity Data

Stability: Wire power brushes are stable when handled or stored properly. Rust may occur

Reactivity

10.1 Conditions to avoid:

Avoid creating or accumulating fines or dust.

10.2 Material to avoid:

acids

10.3 Hazardous decomposition products:

Dust from brushing & grinding could contain ingredients listed in Section 3 and other potentially more hazardous components of the base material being worked.

SECTION 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.

SECTION 12 – Ecological Information

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|--------------------------------------------|--------------------------------------------------------------------------------------------------|
| 12.1 Eco toxicity: | This product contains ingredients that are toxic to aquatic organisms with long lasting effects. |
| 12.2 Mobility: | No potentials known |
| 12.3 Persistence and degradability: | No biodegradable potentials known |
| 12.4 Bio accumulative potential: | No potentials known |
| 12.5 Other hazardous effects: | No effects known |

SECTION 13 – Disposal Considerations

13.1 Product

Follow national and regional regulations

13.2 Packing

Follow national and regional regulations

SECTION 14 – Transport Information

Not rated as hazardous material for transport.

SECTION 15 – Regulatory Information

No specific marking requirements under respective EC directives

SECTION 16 – Other Information

SDS Revision Date: February 25, 2016

Reason for Update: Mandated Update

Preparation By: Nel Iliohan

Company Use

The information and recommendations set forth are taken from sources and references believed to be accurate and complete as of the date hereof. However, FlexOvit USA Inc makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.