Safety Data Sheet
Power Brushes with Encapsulation
Date Issued - 6/1/2015
SDS Number - PB-07

PLEASE NOTE

Encapsulated brushes may have a variety of different wire or filament.

Please refer to the SDS for the respective fill material for additional data.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION:

Power Brushes with Encapsulation

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. The encapsulation itself has minimal acute effects. During normal use it is unlikely that the encapsulation will reach a temperature where evaporation would occur.

GHS Label requirements

Pictogram

None

Signal Word

None

Hazard Statement

There are no hazards of concern for man or the environment from polyurethanes in the forms supplied; Polyurethane elastomers are fully reacted polymers forming article which are not considered hazardous under OSHA's 29 CFR 1910.1200. 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.

Acute Effects

None know from solid state. Fumes from brush working can be irritating and lead to coughing, depending on the work piece. These fumes could contain traces of isocyanates, such as MDI or TDI depending upon which isocyanate is used in the elastomer formulation. Exposure to isocyanates may produce asthma-like reaction, which may occur after repeated exposure to very low levels.

Chronic Effects

Based on available data, repeated exposures may produce cyanosis, cancer, fibrosis, or airway destruction. The following have been observed in experimental animals only: Pulmonary carcinoma, malignant liver tumors, carcinoma of the breast and bladder and methemoglobinemia.

3. COMPOSITION/INGREDIENT INFORMATION

Ingredients	*Weight %*
Polyurethane Elastomer	100

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. If not breathing, give mouth to mouth resuscitation. If breathing is difficult, give oxygen and obtain medical help immediately.

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

Downwind personnel should be evacuated. Do not reseal contaminated containers as pressure build-up may rupture them. Avoid skin contact.

Special Protective Equipment

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

Hazardous Combustion Products

This product may melt forming flammable liquids. These flames produce hazardous gases such as hydrochloric acid, carbon dioxide, carbon monoxide, nitrogen oxides, chlorine, ortho-chloroaniline, hydrogen cyanide, and nitroso amines. Consideration must also 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. Prevent from entering water systems. Wear full repertory protective equipment during clean up.

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. Store in an area with sprinkler systems. Store away from sparks, flames, or other ignition sources. See section 10 for more information on incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 or fume 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*
Form	Solid in various forms
Odor	Odorless
Odor Threshold	Not determined
pH	N/A
Melting Point	~350°F – 450°F May degrade above 350°F
Boiling Point	No data
Flash Point	N/A
Evaporation Rate	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Specific Gravity	1.05 – 1.25
Solubility in H2O	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Viscosity	N/A

10. STABILITY AND REACTIVITY

Reactivity

This material is stable and non-reactive under normal ambient atmospheric conditions.

The fill material and base metal components may rust when exposed to humidity.

Conditions to Avoid

Avoid creating or accumulating fines or dust

Incompatible Materials

Acids and bases

Hazardous Decomposition Products

Decomposition through burning produces fumes consisting of organic particles, gaseous hydrochloric acid, carbon dioxide, carbon monoxide, nitrogen oxides, chlorine, ortho-chloroaniline, hydrogen cyanide, and nitroso amines.

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

Not known to occur.

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

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.

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.

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.