



Safety Data Sheet

TIW (Twisted In Wire) Brushes with Abrasive Filament

Date Issued – 04/11/2017
SDS Number - PB-09

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION:

Tube Brushes with Abrasive Filament

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

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.



3. COMPOSITION/INGREDIENT INFORMATION

Each brush uses filament that is a Nylon base with either Aluminum Oxide or Silicon Carbide based abrasive suspended in the filament. The amount of abrasive varies depending on the brush. Contact Osborn for product specifics.

<i>Nylon with Aluminum Oxide Abrasive Composition</i>		
<i>Ingredients</i>	<i>CAS</i>	<i>Weight %</i>
Nylon	26098-55-5	>55
Aluminum Oxide	1344-28-1	0 - 40
Additives	N/A	<2

<i>Nylon with Silicon Carbide Abrasive Composition</i>		
<i>Ingredients</i>	<i>CAS</i>	<i>Weight %</i>
Nylon	26098-55-5	>55
Silicon Carbide	409-21-2	0 - 40
Additives	N/A	<2

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 or melting may produce potentially hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

Inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact

No specific intervention is indicated as the compound is not likely to be hazardous.

Eye Contact

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

Ingestion

No specific intervention is indicated. Seek medical attention if necessary.

Most Important Symptoms/Effect, Acute and Delayed

No applicable data available

Indication of Any Immediate Medical Attention and Special Treatment Needed

No applicable data available



5. FIRE FIGHTING MEASURES

Extinguishing Media

Use any media that is appropriate for the surrounding fire. Evacuate personnel and keep upwind of fire.

Fire Fighting Procedure

None needed.

Special Protective Equipment

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

Hazardous Combustion Products

Combustible. Water quenching is good practice. Minimize the generation and accumulation of dust. (See also section 10) Carbon monoxide, Carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Methods for Clean Up

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used. Use only non-sparking tools.

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

Do not breathe dust. Provide appropriate exhaust ventilation at places where dust is formed. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Minimize the generation and accumulation of dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Conditions for Safe Storage

Store in a dry location. Keep in an area equipped with sprinklers.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Ingredients</i>	<i>OSHA / PEL</i>	<i>ACGIH / TLV</i>
Dust - Respirable	5 mg/m ³ 8 hr TWA	3 mg/m ³
Dust – Total	15 mg/m ³ 8 hr TWA Total Dust	10 mg/m ³

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

Engineering Controls

General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.

Respiratory Protection

Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled. Potentially respirable dusts may be formed during the use of this product. A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Consult the OSHA respiratory protection information located at 29CFR 1910.134. Use a positive pressure air supplied respirator if exposure levels are not known or there are any other circumstances where air purifying respirators may not provide adequate protection.

Hand Protection

Material: Nitrile rubber - Glove thickness: 0.38 mm - Wearing time: 8 h

Additional protection: In case of contact with condensed vapors from processing, wear chemical resistant gloves such as neoprene or nitrile.

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	Solid
Form	Monofilament
Color	Natural
Odor	Odorless
Odor Threshold	Not determined
pH	N/A
Melting Point	>200° C (392° F)
Boiling Point	No data
Flash Point	N/A
Evaporation Rate	N/A
Flammability	May form combustible dust concentrations in air
Upper Flammable Limit	No data
Lower Flammable Limit	No data
Vapor Pressure	No data
Vapor Density	N/A
Specific Gravity	>1
Solubility in H ₂ O	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temperature	No data
Decomposition Temperature	>190° C Thermal decomposition of the resin accelerates above temperature listed. Decomposition is a function of both process temperature and time at temperature
Viscosity	N/A



10. STABILITY AND REACTIVITY

Reactivity

Stable at normal ambient temperature and pressure.

Chemical Stability

Stable at normal ambient temperature and pressure.

Conditions to Avoid

Temperature > 190 °C (> 374 °F)

Decomposes on heating. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.

Incompatible Materials

Strong acids Strong bases, Strong oxidizing agents

Hazardous Decomposition Products

Hazardous thermal decomposition products:: Aldehydes, Ammonia, traces of hydrogen cyanide, Nitrogen oxides (NO_x) , Carbon dioxide , Carbon monoxide

Hazardous Polymerization

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Further Information

No data is available on the product itself. The product as sold is not expected to be hazardous under reasonably foreseeable use. For additional toxicity data, write to the company address or call the non-emergency number shown in Section 1.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to Hazard Communication 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition). None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.



12. ECOLOGICAL INFORMATION

Toxicity

No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

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

In compliance with TSCA Inventory requirements for commercial purposes.

SARA 313 Regulated Chemical(s): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PA Right to Know Regulated Chemical(s)

Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Silicon Carbide

NJ Right to Know Regulated Chemical(s)

Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Silicon Carbide

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

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.