# SAFETY DATA SHEET

#### SECTION I – General Information

Alto Products Corp. Product Identification: Friction Clutch Plate
One Alto Way Emergency Telephone Number: 251-368-7777
Atmore, AL 36502 Telephone Number for Information: 251-368-7777

Revision Date: 04/19/16

Product Description: Paper Friction Material for use in wet clutch and brake applications

This is a phenolic resin bonded non-woven fibrous product containing no asbestos. When used as intended, this product meets OSHA definition of an article and is exempt from the Hazard Communication Standard. There would be a potential for exposure only if a user were to grind or drill the material. In this regard, we have provided safety information to cover such exposure.

## **SECTION II – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

HAZARDOUS COMPONENTS	CAS#	ACGIH-TLV	OSHA-PEL	WT%	<u>Note</u>
Methanol Free Phenol Free Formaldehyde Crystalline Silica Cellulose	(67-56-1) (108-95-2) (50-00-0) (14464-46-1)	200ppm(skin) 5ppm(skin) 1ppm 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> (resp)	200ppm(skin) 5ppm(skin) 1ppm 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> (resp)	Less Than .1 Less Than .1 Less Than .1 Less than 20 Less than 30	1 2 3 4 5

The listed components are each part of a fully bonded resin system and as such each chemical is completely tied into the matrix and therefore no longer exhibits the chemical properties of the individually listed chemicals when used in the intended application

Note # 1: OSHA/ACGIH short-term exposure limit (STEL) for Methyl Alcohol is 250 PPM. NIOSH recommends a limit of 200 PPM. 8-hour TWA: 800 PPM 15 – minute ceiling. This chemical is subject to the reporting requirements of Section 313. SARA Title III.

Note # 2: Skin absorption may contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not exceeded. This chemical is subject to the reporting requirements of Section 313. SARA Title III. NIOSH recommends a 20 mg/cum TWA and a 60 mg/cum ceiling exposure limit.

Note # 3: OSHA/ACGHI short-term exposure limit (STEL) for Formaldehyde is 2.0 PPM for a 15minute exposure. The OSHA action level is .5-PPM 8-hour TWA. NIOSH recommends reducing exposure to the lower feasible limit.

Note#4. This product is considered a hazard by inhalation. IARC lists it as a possible carcinogenic. If dusting occurs use a NIOSH approved particulate respirator.

Note#5. Nuisance Dust

## SECTION III - PHYSICAL / CHEMICAL CHARACTERSTICS

Physical State: Solid Solubility: None known Specific Gravity (H20 = 1): NA

Vapor Pressure (mm Hg>): NA Melting Point: NA

Vapor Density (AIR = 1): NA Evaporation Rate (Butyl Acetate = 1): NA

Solubility in Water: Insoluble

Appearance and Odor: Solid Bonded Steel Disc with Friction Paper Covering - Odorless

#### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Not applicable Auto-ignition temperature: not applicable Flammability Classification: not classified Extinguishing Media: Chemical Foam, CO2, Water, Fog Hazardous Combustion Products: toxic fumes from phenol, and/ or formaldehyde Special Fire Fighting Procedures: Because fire may produce toxic thermal decomposition products, wear Self-Contained Breathing Apparatus (SCBA) Usual Fire and Explosion Hazards: None Known

## **SECTION V--FIRST AID MEASURES**

Exposure only through grinding:

Eyes: Flush with large amounts of water, lifting upper and lower lids occasionally; seek medical attention.

Skin: Thoroughly wash exposed area with soap and water. If irritation persists or rash develops, seek medical attention. Remove contaminated clothing and launder before re-use.

Inhalation: If affected, remove individual to fresh air. If breathing is difficult, loosen clothing. Administer oxygen if necessary. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

Ingestion: N/A

#### **SECTION VI – STABILITY and REACTIVITY DATA**

Stability: Stable Conditions to Avoid: None Known Incompatibility (Materials to Avoid): None

Known Hazardous Decomposition or Byproducts: None known Hazardous Polymerization: Will not Occur Conditions to Avoid: None known

## **SECTION VII- HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation of dust if cut.

Skin: None Known Ingestion: Not applicable Health Hazards (Acute and Chronic): None Known Carcinogenicity: IARC, NTP, and OSHA do list formaldehyde as a carcinogen. At levels existing in this product Alto does not expect that the friction clutch would be considered carcinogenic. Signs and Symptoms of Exposure: None Known Emergency and First Aid Procedures: None Known

## SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: NA Waste Disposal Methods: Landfill according to Federal, State or Local Regulations Precautions to Be Taken in Handling and Storing: None Other Precautions: None

In the event materials acted upon in such a way to create airborne dust, monitoring should be done in accordance with OSHA guidelines. Good housekeeping and dust collection will reduce chances for exceeding allowable dust exposure limits.

The information presented, while not guaranteed, was prepared based on input from material suppliers, current government standards and ACGIH guidelines. No warranty, or guarantee,

#### **SECTION IX- CONTROL MEASURES**

In the event of grinding:

Respiratory protection: NIOSH approved dust masks with TLV's not more than 0.05 mg/l

Local Exhaust: Per ANSI 29.2-1971 recommendations to avoid contact with dust

Dust Removal: Use vacuum. Do not blow with compressed air

Eye Protection: OSHA approved safety glasses

#### **SECTION X SPECIAL PRECAUTIONS**

None

### SECTION XI-TOXICOLOGICAL INFORMATION

No testing has been completed; no data is available

### **SECTION XII---ECOLOGICAL INFORMATION**

No testing has been completed; no data is available

#### **SECTIONXIII-- DISPOSAL CONSIDERATIONS**

Waste disposal/incineration is to be conducted in accordance with local, state, and federal environmental laws.

#### **SECTION XIV---TRANSPORT INFORMATION**

Land Transport (DOT) Sea Transport (IMDG) Air Transport (IATA) Non-regulated Non-regulated Non-regulated

## **SECTION XV--RAW INFORMATION**

The product as received by the customer is in a coated/saturated condition being bonded on the steel core Listed ingredients noted in Item 2, above - list all the raw materials required for disclosure.

Other information regarding this product is considered to be proprietary in nature.

# **SECTION XVI--OTHER INFORMAITON**

# DISCLAIMER OF LIABILITY

The information and data herein are believed to be accurate and have been compiled from sources considered dependable. No representation, guarantees or warranties of any kind are made as to the accuracy or suitability for particular applications of the product, from this data sheet. Alto Products Corp. shall not be liable for any use or handling of any material beyond the direct control of Alto Products Corp.: the customer assumes all risk and liabilities