GOODSON
Tools and Supplies for Engine Builders
156 Galewski Drive • P.O. Box 847 • Winona, MN 55987-0847
Toll-Free 1-800-533-8010 • Local 507-452-1830 • www.goodson.com

RESIN BONDED ABRASIVES

Safety Data Sheet
Date of Issue: 4/15/2015
Revision Date: 06/03/2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form : Standard Abrasives™ Buff & Blend HP A-VFN Discs, Rolls, Wheels, Cross Buffs, Center Hole, HP Power Pads, Quick Change

1.2. Recommended Use and Restrictions on Use

Recommended use : Abrasive Product

1.3. Details of the supplier of the safety data sheet

Manufacturer	Distributor
3M, Abrasive Systems Division	Goodson Manufacturing Company
3M Center	156 Galewski Drive
St. Paul, MN 55144-1000 - USA	Winona, MN 55987-0847 - USA
T 1-888-364-3577	T 507-452-1830

1.4. Emergency telephone number

Emergency number : 800-924-6804 (24 hr.)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200

2.2. Label elements

Signal word (GHS-US) : Not Applicable
Symbols : Not Applicable
Pictograms : Not Applicable

2.3. Hazards Not Otherwise Classified

None

43% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Number	%
Aluminum Oxide Mineral (non-fibrous)	0001344-28-1	40 - 55
Filler	0013983-17-0	1 - 3
Titanium Dioxide	0013463-67-7	0.25 - 2.00
Silica	0007631-86-9	0.25 - 1.50
Lubricant	0008042-47-5	0.10 - 0.75
Cured Resin	Mixture	20 - 45
Nylon Fiber	Mixture	10 - 20
Attachment Button	Mixture	0 - 5
Metal Eyelet (Cross Buffs)	Mixture	0 - 5
Fiberglass Core	Mixture	0 - 5

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Inhalation : Remove person to fresh air. If you feel unwell, get medical attention.
Skin Contact : Wash with soap and water. If signs/symptoms develop, get medical attention.
Eye Contact : Flush with large amounts of water. Remove contact lenses if present and easy to do so. Continue rinsing. If signs/symptoms persist, get medical attention.
If Swallowed : No need for first aid is anticipated.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 for Information on Toxicological Effects.

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

In case of fire : Use a fire fighting agent suitable for ordinary combustible materials such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Hazards : Non inherent in this product.

Hazardous Decomposition or By-Products :

Substance	Condition
Carbon Monoxide	During Combustion
Carbon Dioxide	During Combustion

5.3. Advice for firefighters

Firefighting instructions : No unusual fire or explosive hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Observe precautions from other sections.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Not applicable

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

7.2. Conditions for safe storage, including any incompatibilities

No special storage requirements

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Ingredient	CAS No.	Agency	Limit Type
Aluminum Oxide Mineral (non-fibrous)	0001344-28-1	CMRG	TWA: 1 fiber/cc
		OSHA	TWA (as total dust): 15 mg/m^3; TWA (respirable fraction): 5 mg/m^3
Aluminum, insoluble compounds	0001344-28-1	ACGIH	TWA (respirable fraction): 1 mg/m^3
Titanium Dioxide	0013463-67-7	ACGIH	TWA: 10 mg/m^3
		CMRG	TWA (as respirable dust): 5 mg/m^3
		OSHA	TWA (as total dust): 15 mg/m^3
Silica	0007631-86-9	CMRG	TWA (as respirable dust): 3 mg/m^3
Silica, Amorphous	0007631-86-9	OSHA	TWA Concentration: 0.8 mg/m^3; TWA: 20 millions of particles/cu. ft.
Lubricant	0008042-47-5	CMRG	TWA: 5 mg/m^3; STEL: 10 mg/m^3
Mineral Oils, Highly Refined Oils	0008042-47-5	ACGIH	TWA (inhalable fraction): 5mg/m^3
Paraffin Oil	0008042-47-5	OSHA	TWA (as mist): 5 mg/m^3

ACGIH: American Conference of Governmental Industrial Hygienists, **AIHA**: American Industrial Hygiene Association, **CMRG**: Chemical Manufacturer's Recommended Guidelines, **OSHA**: United States Department of Labor - Occupational Safety and Health Administration, **TWA**: Time Weighted Average, **STEL**: Short Term Exposure Limit, **CEIL**: Ceiling

8.2. Exposure controls

Engineering Controls : Provide appropriate local exhaust ventilation for sanding, grinding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fumes/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. WARNING: Excessive operating speed or generation of extreme heat may result in harmful emissions. Use local exhaust ventilation. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e.; there is no leakage from the equipment).

Personal Protective Equipment (PPE)

Eye/Face Protection : To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with Side Shields.

Skin/Hand Protection : Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

Respiratory Protection : Assess exposure concentrations of all materials involved in the work process. Consider materials being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation over-exposure. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half face-piece or full face-piece air-purifying respirator suitable for particulates.

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	:	Solid
Odor, Color, Grade	:	Solid Abrasive Product
Odor Threshold	:	Not applicable
pH	:	Not applicable
Melting Point	:	Not applicable
Boiling Point	:	Not applicable
Flash Point	:	Not applicable
Evaporation Rate	:	Not applicable
Flammability (solid, gas)	:	Not classified
Flammability limits (LEL)	:	Not applicable
Flammability Limits (UEL)	:	Not applicable
Vapor Pressure	:	Not applicable
Vapor Density	:	Not applicable
Specific Gravity	:	Not applicable
Solubility in Water	:	Not applicable
Partition Coefficient: n-octanol/water	:	Not applicable
Autoignition Temperature	:	Not applicable
Decomposition Temperature	:	Not applicable
Viscosity	:	Not applicable

SECTION 10: Stability and reactivity

Reactivity	:	This material is considered to be non-reactive under normal use conditions.
Chemical Stability	:	Stable.
Possibility of Hazardous Reactions	:	Hazardous polymerization will not occur.
Conditions to Avoid	:	None known.
Incompatible Materials	:	None known.
Hazardous Decomposition Products	:	None known. Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on toxicological effects

Signs and Symptoms of Exposure

Inhalation	:	Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain.
Skin Contact	:	Mechanical skin irritation: Signs/symptoms may include: abrasion, redness, pain and itching.
Eye Contact	:	Mechanical eye irritation: Signs/symptoms may include: pain, redness, tearing and corneal abrasion. Dust created by grinding, sanding or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing and blurred or hazy vision.

Ingestion : No health effects are expected.

Carcinogenicity :

Ingredient	CAS No.	Class Description	Regulation
Titanium Dioxide	0013463-67-7	Group 2B: Possible Human Carcinogen	International Agency for Research on Cancer

Additional Information : This document covers only the provided product. For complete assessment, when determining a degree of hazard, the material being abraded must also be considered.

This product contains Titanium Dioxide. Cancer of the lungs has been observed in rats that inhaled high levels of titanium dioxide. No exposure to inhaled titanium dioxide is expected during the normal handling and use of this product. Titanium dioxide was not detected when air sampling was conducted during simulated use of similar products containing titanium dioxide. Therefore, the health effects associated with titanium dioxide are not expected during the normal use of this product.

Toxicological Data : If a component is disclosed in Section 3 but does not appear in the table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Ingredient	Route	Species	Value
Overall Product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Aluminum Oxide Mineral (non-fibrous)	Dermal		LC_{50} estimated to be > 5,000 mg/kg
	Inhalation-Dust/Mist, 4 hr.	Rat	LC_{50} > 2.3 mg/l
	Ingestion	Rat	LD_{50} > 5,000 mg/kg
Filler	Dermal		LD_{50} estimated to be > 5,000 mg/kg
	Ingestion		LD_{50} estimated to be 2,000 to 5,000 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD_{50} > 10,000 mg/kg
	Inhalation-Dust/Mist, 4 hr.	Rat	LC_{50} > 6.82 mg/l
	Ingestion	Rat	LD_{50} > 10,000 mg/kg
Silica	Dermal	Rabbit	LD_{50} > 5,000 mg/kg
	Inhalation-Dust/Mist, 4 hr.	Rat	LC_{50} > 0.691 mg/l
	Ingestion	Rat	LD_{50} > 5,110 mg/kg
Lubricant	Dermal	Rabbit	LD_{50} > 2,000 mg/kg
	Ingestion	Rat	LD_{50} > 5,000 mg/kg

ATE = Acute Toxicity Estimate

Skin Corrosion/Irritation

Ingredient	Species	Value
Aluminum Oxide Mineral (non-fibrous)	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
Silica	Rabbit	No significant irritation
Lubricant	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Ingredient	Species	Value
Aluminum Oxide Mineral (non-fibrous)	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
Silica	Rabbit	No significant irritation
Lubricant	Rabbit	Mild irritant

Skin Sensitization		
Ingredient	**Species**	**Value**
Titanium Dioxide	Human/Animal	Not sensitizing
Silica	Human/Animal	Not sensitizing
Lubricant	Guinea Pig	Not sensitizing

Germ Cell Mutagenicity		
Ingredient	**Route**	**Value**
Aluminum Oxide Mineral (non-fibrous)	In Vitro	Not mutagenic
Filler	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
	In Vivo	Not mutagenic
Silica	In Vitro	Not mutagenic
Lubricant	In Vitro	Not mutagenic

Carcinogenicity			
Ingredient	**Route**	**Species**	**Value**
Aluminum Oxide Mineral (non-fibrous)	Ingestion	Rat	Not carcinogenic
Titanium Dioxide	Ingestion	Multiple Animal Species	Not carcinogenic
	Inhalation	Rat	Carcinogenic
Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Lubricant	Dermal	Mouse	Not carcinogenic
	Inhalation	Multiple Animal Species	Not carcinogenic

Reproductive Toxicity - Reproductive an/or Developmental Effects					
Ingredient	**Route**	**Value**	**Species**	**Test Result**	**Exposure**
Silica	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
		Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
		Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Lubricant	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
		Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
		Not toxic to development	Rat	NOAEL 4,350 mg/kg/day	during gestation

Specific Target Organ Toxicity - Repeated Exposure						
Ingredient	**Route**	**Target Organ(s)**	**Value**	**Species**	**Test Result**	**Exposure**
Aluminum Oxide Mineral (non-fibrous)	Inhalation	Pneumconiosis Pulmonary Fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	Occupational
Filler	Inhalation	Respiratory System	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	Occupational
		Pulmonary Fibrosis	All data are negative	Human & Animal	NOAEL Not available	
Titanium Dioxide	Inhalation	Respiratory System	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.010 mg/l	2 years
		Pulmonary Fibrosis	All data are negative	Human	NOAEL Not available	Occupational
Silica	Inhalation	Respiratory System/ Silicosis	All data are negative	Human	NOAEL Not available	Occupational
Lubricant	Ingestion	Hematopoietic System	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1381 mg/kg/day	90 days
		Liver/Immune System	Some positive data exist but the data are not sufficient for classification	Rat	NOAEL 1336 mg/kg/day	90 days

Please contact the address or phone number listed on the first page of this SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Eco-toxicological Information : Please contact the address or phone number on the first page of this SDS for additional eco-toxicological information on this material and/or its components.

Chemical Fate Information : Please contact the address or phone number on the first page of this SDS for additional eco-toxicological information on this material and/or its components.

SECTION 13: Disposal considerations

Disposal Methods : Dispose of contents /container in accordance with local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. The substrate that was abraded must be considered as a factor in the disposal of this product. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA) : Not regulated.

SECTION 14: Transport information

Not regulated per U.S. DOT, IATA or IMO

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact the manufacturer for more information

311/312 Hazard Categories : Fire Hazard - No, Pressure Hazard - No, Reactivity Hazard - No, Immediate Hazard - No, Delayed Hazard - No

15.2. State Regulations

Contact the manufacturer for more information

15.3. Chemical Inventories

This product is an article as defined by TSCA regulations and is exempt from TSCA Inventory listing requirements. Contact the manufacturer for more information.

15.4. International Regulations

Contact the manufacturer for more information.

This SDS has been prepared to meet the US OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification : Health: 0, Flammability: 1, Instability: 0, Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group	:	28-2983-6
Version No.	:	1.07
Issue Date	:	06/03/2014
Supersedes Date	:	04/21/2014

DISCLAIMER : The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate this product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

We provide information in electronic form to our customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, we make no representations as to its completeness or accuracy. In addition, information obtained from a database may not be a current as the information in the SDS available directly from the manufacturer.