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Contact us for Pricing:

Phone: 281-485-9772 | Fax: 281-485-4386

Email: Sales@swsintl.com | Website: www.swsintl.com

Address: 3908 1st Street Pearland, Texas 77581

Gulf States Abrasive Manufacturing Co., Ltd.
Material Safety Data Sheet

Section 1. Chemical Product And Company Information

Product Name: Abrasive Products
Trade Name: Resin Bonded Abrasive Products
Manufacturer: Gulf States Abrasive Mfg., Ltd.
 6408 Washington Ave
 Houston, TX 77007
 (713) 869-4841

Section 2. Composition/Information On Ingredients

Composition as per 29 CFR 1910.1200(g)(4)

Chemical Name	Percentage	CAS Number	OSHA PEL Permissible Exposure Limit	ACGIH TLV Threshold Limit Value
Aluminum Oxide*	0-95	1344-28-1	15mg/M ³	10mg/M ³
Silicon Carbide	0-95	409-21-2	15mg/M ³	10mg/M ³
Zirconium Oxide	0-80	1314-23-4	5mg/M ³ (Zr)	5mg/M ³
Phenol Formaldehyde Resin (cured)**	3 15	9003-35-4	None Found	N/A
Fiberglass****	0-10	65997-35-4	15mg/M ³	10mg/M ³
Fluorides***	0-15	Various	2.5mg/M ³ (F)	2.5mg/M ³ (F)
Calcium Oxide	1 10	1305-78-8	5mg/M ³	2mg/M ³
Sulphates & Sulphides^	1 15	Various	10mg/M ³ Tot.Dust	10mg/M ³ (dust)
Calcium Compounds^	1 12	Various	10mg/M ³ Tot.Dust	10mg/M ³ (dust)

* Aluminum Oxide is at least 96% pure, usually containing other metallic oxides as impurities.

** Free Phenol [108-95-2](PEL & TLV:5ppm) and free Formaldehyde [50-00-0](PEL:0.75ppm) may be present in trace amounts.

*** Maximum Fluoride Content, as F is 9.05%. Fluoride may be released in trace amounts under normal use.

**** Present only in fiberglass reinforced wheels.

^ Substance is a compound +/- or mixture.

Section 3. Hazardous Identification

Inhalation Acute Exposure Effects: Dust may be slightly irritating to eyes and respiratory tract at high concentrations.
Eye Contact Acute Exposure Effects: Dust may irritate eyes.
Skin Contact Acute Exposure Effects: Some may experience skin irritation from dust.
Ingestion Acute Exposure Effects: No known adverse effects but ingestion should be avoided.
Medical Conditions Generally Recognized as Being Aggravated by Exposure:

May aggravate existing respiratory problems.

Dust generated from the intended use of this product may contain trace amounts of inorganic fluorides. Excessive exposure to fluorides has been shown in NIOSH studies to increase bone density. Dust generated from the intended use of this product may contain trace levels of phenolic resins which may under excessive exposure cause skin sensitization and airway obstruction.

Section 4. First Aid Measures

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get Medical attention immediately.
Eye Contact: Wash with large amounts of water. Obtain first aid and medical assistance, if needed.
Skin Contact: Wash affected areas with soap and water. If irritation persists, obtain medical assistance.
Ingestion: Obtain medical assistance and call poison control center.

Section 5. Fire Fighting Measures

Fire Fighting Procedures: N/A
Hazardous Products/Combustion: None
 Fire & Explosion Hazard Data

Flash Point: Not Applicable

Flammable Limits: LEL: Not Applicable UEL: Not Applicable

Extinguishing Media: Water, foam or CO2

Special Fire Fighting Procedures: Toxic fumes are evolved on burning.

Unusual Fire & Explosion Hazards: Fumes from burning cured Phenol/formaldehyde resin contain trace formaldehyde which can cause eye, nose and throat irritation.

Section 6. Accidental Release Measures

Clean-up: Follow normal Clean up procedures.

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Section 7. Handling And Storage

Precautions for Safe Handling and Use

Spills or leaks: Collect and pick up materials following normal precautions for inert nuisance dusts>
Disposal: Standard landfill methods consistent with applicable federal, state and local laws.
Storage: Store in a cool, dry place and as per ANSI B7.1
Normal Usage: Observe recommended running speeds. Provide adequate ventilation for nuisance dusts.
Also see ANSI B7.1

Section 8. Exposure Controls/Personal Protection

Ventilation Protection: Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000 (Air Contaminants)
Respiratory Protection: Respirators are required when airborne contaminant levels exceed the TLV (s).
Eye Protection: Always WEAR SAFETY GLASSES or some type of eye protection when grinding.
Other Protection: Exercise good personal hygiene. Hearing protection may be required (see OSHA 29 CFR 1910.95 & other applicable regulations)

Section 9. Physical and Chemical Properties

Specific Gravity: 1.8 to 4.0
Odor: No detectable Odor
Appearance: Light or medium grey, brown or black colored, porous solid.
Solubility in Water: Insoluable to sight.

Section 10. Reactivity Data

Incompatibilities: Avoid acids of all types with a pH <4.0
Decomposition Products: During use, dust and decomposing organic fumes are generated which may contain trace amounts of phenol, formaldehyde and fluorides, if present. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants or other surface residues may produce decomposition products.
Conditions to be avoided: No applicable information found.

Section 11 Toxicological Information

Carcinogenicity: Fiberglass contained in wheels have fiber diameters > 10 um, therefore considered non-respiral.
Inhalation Chronic Exposure Effects: Chronic, may effect breathing.
LD50/LC50: Values are not appropriate or available.

Section 12. Ecological Information

Chemical Fate: Resin Bonded materials demonstrate similar degradation rates as phenolic plastics.

Section 13. Disposal Considerations

Waste Disposal: Use standard landfill methods consistent with applicable federal, State, Provincial and local laws. Products with listed fluorides may have slightly soluble fluoride swarf.

Section 14. Transport Information

Hazard Class: This product is not hazardous as defined by the Department of Transportation. (USA). This product is "Not Regulated" under the Transportation of Dangerous Good Act. (CAN).

Section 15. Regulatory Information

Exposure Limits/Regulatory Information:

CA Prop 65: This product contains chemicals, and Formaldehyde, known to the state of California to cause cancer.
TSCA: Section 8 (b) - Inventory Status: All components of this product are registered under the regulation of the Toxic Substance Control Act.

Domestic Substance List: All components of this product are found on the Domestic Substance List.

WHMIS Classification: D2B

Section 16. Other Information

Additional Information/Comments: The information contained herein is based on data considered to be accurate. While the information is believed to be reliable, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the use thereof. Since the use of this information and the conditions and use of this product are controlled by the user, it is the user's obligation to determine the conditions of safe use of this product.

Prepared by: Edwin F. Sadowski Jr.

Phone Number: (713) 869-4841

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