

HMIS Rating		MATERIAL SAFETY DATA SHEET (Complies with OSHA Communication Standard 29 CFR 1910.1200 Dept. of Labor) Form approved OMB No. 1218-0072 OSHA 174 - Sept. 1985	NFPA Rating	
Health	X		Health	
Flammability	X		Flammability	
Reactivity	X		Reactivity	
Personal Protection	X		Special	

Section I - Product Identification

Cut off Wheels & Grinding Wheels

Marketer's Name Must Appear Below Gulf States Abrasive Mfg. Co.	DOT Shipping and Hazard Classification
Manufactured For: IBS, Incorporated	Emergency Telephone Number 713-669-4841
Address: <small>The Maintenance Connection P.O. Box 1033 Portland, ME 04104 (888) 298-8585</small>	Telephone Number for Information (888) 298-8585
	Date Prepared

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity)	OSHA PEL	ACGIH TLV	CAS Number	Carcinogen
Alpha-Alumina (Aluminum)	15mg/m ³	10mg/m ³	1344-28-1	N
Silicon Carbide	15mg/m ³	10 mg/m ³	409-21-1	N
Titanium Oxide (Titania)	15 mg/m ³	10 mg/m ³	13463-67-7	N
Zirconia Oxide (Zirconia)	5 mg/m ³	5 mg /m ³	NAIF	N
Iron Sulphide (Pyrites)	NAIF	NAIF	12068-85-8	N
Calcium Oxide (Lime)	5 mg/m ³	2 mg/m ³	1305-78-8	N
Sodium Fluoaluminat (Cryolite)		2.5 mg/m ³	15096-52-3	N
Calcium Carbonate (Omyacarb 14)	15mg/m ³ TWA	10mg/m ³	1317-66-3	N
Phanolic Resin (Cured Resin)		10mg/m ³	N/A	N
Glass, Fibrous Dust (Fiberglass)	NAIF	NAIF	NAIF	N

All chemical compounds marked with an Asterisk (*) are toxic chemicals subject to the reporting requirements of Section 313 of Title I Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this material is sold. This statement must remain a part of this Material Safety Data Sheet.

Section III - Physical/Chemical Characteristics

Boiling Point: NAIF	Specific Gravity (H ₂ O=1): 18-4	Melting Point: NAIF
Vapor Pressure PSIG @ 70°F: NAIF	Vapor Density (Air=1): NAIF	Evaporation Rate (Butyl Acetate=1): NAIF
Solubility in Water: SLIGHTLY	Appearance: SOLID SUBSTANCE	Odor: May give off odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): NAIF	Flammable Limits: LEL UEL N/A N/A
Extinguishing Media: WATER	
Special Fire Fighting Procedures: NONE	
Unusual Fire and Explosion Hazards: NONE	

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risk in the use of the material.

Section V - Reactivity Data

STABILITY: Unstable Stable Conditions to Avoid: N/AIF

Incompatibility (Materials To Avoid): Avoid acids of all types with a PH <= 4.0

Hazardous Decomposition or By-products: Dusts are generated in use.

Hazardous May Occur Will Not Occur
Polymerization Conditions to Avoid: None known

Section VI - Health Hazard Data

Routes of Entry: Inhalation Yes Ingestion Yes Skin Absorption Yes Eye Yes - All during grinding

Carcinogenicity: NTP? IARC Monograph? OSHA Regulated? Yes

Health Hazards (Acute and Chronic): INHALATION /Acute: Coughing Shortness of Breath Chronic: May affect breathing capacity. INGESTION- no known adverse effects. Ingestion not recommended. SKIN CONTACT - some individuals experience irritation from dust. EYE CONTACT - Dust may irritate eyes. OTHER POTENTIAL RISKS: Grinding may create elevated sound levels which may affect hearing.

Signs and Symptoms of Exposure

Inhalation: Difficulty in breathing

Ingestion: Nausea & vomiting.

Skin Contact: Redness.

Eye Contact: Irritation.

Medical Conditions Aggravated by Exposure: Respiratory Disorders.

Emergency First Aid Procedures

Inhalation: Remove to fresh air. Give oxygen. Resuscitate if necessary. Get medical help.

Ingestion: OBTAIN MEDICAL ASSISTANCE.

Skin Contact: Wash with soap and water. Obtain medical assistance.

Eye Contact: Obtain medical assistance.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case

Material is Released or Spilled: Normal clean up procedures.

Waste Disposal Method: Standard landfill methods consistent with applicable Federal, State & local laws.

Precautions to be Taken in

Handling and Storing: Discard dropped or damaged items.

Other Precautions: Product should be used only by personnel familiar with ANSI B7.1 and recommended rules of safe use.

Section VIII - Control Measures

Protective Equipment Types

Eyes: MANDATORY. See OSHA 29 CFR 1910.133

Respiratory: As needed. Approved dust respirators. See OSHA CFR 1910.

Gloves: Recommended

Other: Hearing protection as needed. See OSHA 29 CFR 1910.215

Ventilation: General Mechanical Yes Local Exhaust Yes Other N/A

Work/Hygiene Practices: