

**Material Safety Data Sheet**  
 ("Essentially Similar" to Form OSHA-174)

CUSTOM GRINDERS SALES, INC.  
 P. O. BOX 1446  
 CHATSWORTH, GA 30705

MANUFACTURER	DATE PREPARED	REVISION DATE	MSDS #	SHERWIN #
SHAC	03/24/00	01/01/12	5120	00450

**SECTION 1 - MATERIAL IDENTIFICATION**

PRODUCT NAME: Hydrated Alumina; Alumina Trihydrate

TRADE NAME: Polyfill & CG-60 - CG-60U  
 RA-18

EMERGENCY PHONE #:  
 (361) 777-2311

COMPANY NAME:  
 Custom Grinders Sales, Inc.  
 P.O. Box 1446  
 Chatsworth, GA 30705

MANUFACTURER:  
 Sherwin Alumina Company  
 P.O. Box 9911  
 Corpus Christi, TX 78469

**SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL**

Hazardous Ingredients	Typical Percent	OSHA PEL			ACGIH TLV			CAS Numbers
		Gas ppm	Fume mg/m3	Dust mg/m3	Gas ppm	Fume mg/m3	Dust mg/m3	
Aluminum trihydroxide	85.0-95.0	N/A	N/A	15/5 *	N/A	N/A	10/3 *	21645-51-2
Sodium carbonate	0.5-2.0	N/A	N/A	15/5 *	N/A	N/A	10/3 *	497-19-8

\* First Number indicates Total Dust, Second Number indicates Respirable Dust.

**SECTION 3 - PHYSICAL DATA OF MATERIAL**

BOILING POINT: N/A  
 SPECIFIC GRAVITY: ND  
 VAPOR PRESSURE: N/A  
 VAPOR DENSITY: N/A  
 COEFFICIENT OF WATER/OIL DIST: N/A  
 ODOR THRESHOLD: N/A  
 DENSITY: 3.7-3.9

FREEZING POINT: 2050 °C  
 SOLUBILITY IN WATER: Insoluble  
 PHYSICAL STATE: Powder  
 pH: N/A  
 EVAPORATION RATE: N/A  
 APPEARANCE/ODOR: Odorless, white color

**SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL**

FLAMMABILITY: YES? NO? X

WHAT CONDITIONS? N/A

FLASH POINT (Method Used): N/A

UEL: N/A  
 LEL: N/A

MEANS OF EXTINCTION: Product is not combustible and does not present an explosion hazard.

SPECIAL PROCEDURES: Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate. This product is not a fire hazard.

AUTO IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: None known

SENSITIVITY TO IMPACT: None known

SENSITIVITY TO STATIC DISCHARGE: None known

**EMERGENCY OVERVIEW**

White crystalline powder without an odor. Non-flammable. Non-corrosive. Not an explosion hazard. Dust may cause irritation to the eyes, skin, nose, and respiratory system.

## SECTION 5 - REACTIVITY DATA

**CHEMICAL STABILITY:** Stable under normal conditions of use, storage, and transportation as shipped.

**REACTIVITY AND UNDER WHAT CONDITIONS:** Non reactive. When exposed to fire or heat, hydrated alumina loses its water of crystallization beginning at 572°F (300°C). Non-corrosive.

**INCOMPATIBILITY TO OTHER SUBSTANCES:** NO

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

## SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT

**ROUTE(S) OF ENTRY:** INHALATION? YES  
EYE CONTACT? YES

INGESTION? YES  
SKIN ABSORPTION? NO

**EFFECTS OF ACUTE EXPOSURE:**

Alumina is considered a nuisance particulate. High exposure to alumina dust may produce irritation of the eyes and respiratory system. May produce mild irritation of the eyes. May cause mild irritation of the skin or physical abrasion of the skin. Hydrated Alumina is a low health risk by inhalation.

**EFFECTS OF CHRONIC EXPOSURE:** None known

**LD50 OF PRODUCT:**

Aluminum trihydroxide - 8040 mg/kg/67 DC oral-rat  
Sodium carbonate - 4090 mg/kg oral-rat  
Water - Not known

**LC50 OF PRODUCT:**

Aluminum trihydroxide - Not known  
Sodium carbonate - 1200 mg/m<sup>3</sup>/2h INH-MUS  
Water - Not known

**IRRITANCY OF PRODUCT:** Mild

**EXPOSURE LIMITS OF PRODUCT:**  
Use levels for alumina oxide shown in Section 2.

**SENSITIZATION TO PRODUCT:** None known

**SYNERGISTIC MATERIALS:** None known

**CARCINOGENICITY:** None known

**REPRODUCTIVE EFFECTS:** None know

**TERATOGENICITY:** None known

**MUTAGENICITY:** None known

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Pre-existing upper respiratory and lung disease such as, but not limited to, Bronchitis, Emphysema, and Asthma.

**ECOTOXICOLOGICAL INFORMATION:** ND

**DISTRIBUTION:** ND

**CHEMICAL FATE INFORMATION:** ND

ND = NOT DETERMINED

N/A = NOT APPLICABLE

**SECTION 7 – PREVENTIVE MEASURES****PERSONAL PROTECTIVE EQUIPMENT:**

**GLOVES:** Wear appropriate work gloves to avoid repeated or prolonged skin contact.

**EYEWEAR:** Safety glasses, goggles, or face shield, as needed, to avoid eye contact.

**RESPIRATORY:** Use NIOSH/MSHA-approved particulate respirator as an Industrial Hygienist or other qualified professional, if TLVs and PELs are exceeded.

**FOOTWEAR:** Safety shoes, as needed.

**CLOTHING:** As needed.

**ENGINEERING CONTROLS:** Use adequate ventilation to control airborne emissions.

**LEAK AND SPILL PROCEDURES:** Clean up using dry procedures. Avoid creating dust.

**WASTE DISPOSAL:**

This material, when discarded or disposed of, is not specifically listed as a hazardous waste under RCRA and would normally not exhibit any characteristics of hazardous waste as specified in 40 CFR Part 261.20. However, if this material is processed, mixed, or contaminated with other materials, it may become regulated as hazardous waste and subject to applicable RCRA requirements.

**Waste Disposal Method:** For disposal of this material as non-hazardous, consult state and local industrial solid waste regulations or contact their regulatory authorities for guidance.

**HANDLING PROCEDURES AND EQUIPMENT:** Avoid contact with eyes and skin. Avoid creating dust.

**STORAGE REQUIREMENTS:** Keep material dry. Containerize in drums, tarped dump truck, or bulk containers so that dusting is minimal.

**SPECIAL SHIPPING INFORMATION:**

**DOT Shipping Name/Hazard Code:** Not-Regulated – enter the proper freight classification, and “Product Name” on the shipping paperwork.

**SECTION 8 – FIRST AID MEASURES**

**SKIN:** Wash with soap and water.

**EYES:** Immediately flush with large amounts of water or saline for at least 15 minutes. Seek medical attention if irritation persists.

**INHALATION:** Using proper respiratory protection, immediately remove the affected person from exposure and into fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

**INGESTION:** Does not represent a hazard.

**SECTION 9 – REGULATORY INFORMATION**

**OSHA Process Safety Standard:** This material is not known to be hazardous as defined by OSHA's Process Safety

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Management Standard, 29 CFR 1910.119.  
TSCA Status: All components listed.

CERCLA Reportable Quantity: None

**Sara Title III:**

Section 311/312 Physical and Health Hazard Categories: Delayed (chronic) if particulates/fumes are generated during process.

Section 313: Toxic Chemicals: None

**RCRA Status:** This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266 and 268 apply.

**STATE REGULATIONS**

Pennsylvania "Special Hazardous Substance": No components listed.

California Proposition 65: No components listed.

**INTERNATIONAL REGULATIONS**

**Canadian Environmental Protection Act:** This product complies with the requirements of the Canadian Environmental Protection Act for shipment into Canada.

**Canadian National Pollutant Release Inventory:** No components listed.

**WHMIS Status:** This is not a WHMIS controlled product under The House of Commons Canada Bill C-70.

**Canadian Domestic Substance List:** All components Listed

**Canadian Non Domestic Substance List:** No components Listed

**European Inventory of Chemical Substances List (EINECS list):** All components of this product are listed on the AICS inventory. EINECS Number 244-492-7.

**Japanese Inventory of Chemical Substances List:** All components of this product are listed on MITI.

**Australian Inventory of Chemical Substances List:** All components of this product are listed on the AICS inventory.

**Mexican Inventory of Chemical Substances List:** Unknown

**SECTION 10 - OTHER INFORMATION**

**HMIS Ratings:**

Health	= 0
Flammability	= 0
Reactivity	= 0

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