



**WesBond Corporation
Material Safety Data Sheet**

Wesrock RFC # 17

Revision Date: 08/12/2014	Supercedes: 07/21/2011	First Issued: 01/01/1999
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Section 1. Chemical Product and Company Identification

Sales Name	Wesrock RFC #17 Refractory Coating
Product Description	Alumina Bonded Alumina and Zircon Grains
CAS Number	N/A

Manufacturer	WesBond Corporation
Address	1135 E. 7 th Street Wilmington, DE 19801
Contact	Wes Jones
Telephone (0800 – 1630 EST)	302-655-7917
Approved By	Wes M Jones

Telephone Numbers	US – CHEMTREC (24 hrs)	800-424-9300
	CANADA – CANUTEC (24 hrs)	613-996-6666

Section 2. Composition / Information on Ingredients

Component	CAS Number	Weight %
Aluminum Oxide	1344-28-1	40 – 60%
Zirconium Silicate	14940-68-2	40 – 60%

Section 3. Hazard Identification

Emergency Overview	A white odorless dense powder which is a mild eye irritant due to abrasive effects.
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Potential Health Effects	
Eyes	May cause eye irritation from abrasive effects.
Skin	Non-irritant.
Inhalation	Treat as nuisance dust.
Ingestion	Non-toxic, no adverse effects expected.
(See Section 11 for Toxicological Information)	

Section 4. First Aid Measures

EYES	Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention if irritation persists.
SKIN	Treat as nuisance dust. Wash with water, use skin cream if necessary. Remove all contaminated clothing, and launder before reuse.
INHALATION	Not a normal route of entry.
INGESTION	Immediately rinse mouth with water. Finally drink water. If necessary seek medical attention.



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Notes to physician	None.
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Section 5. Fire Fighting Measures

Fire Extinguishing Media	N.A.
Flash Point (°F)	Noncombustible.
Special Fire Fighting Procedures	Non flammable (water)
Flammable Limits (Vapor In Air, Vol.%)	N.A.
Unusual Fire And Explosion Hazards	Product will not burn, not explosive.
Hazardous Decomposition Products	None

Section 6. Accidental Release Measures

Large Spillages	Collect as much as possible in a clean container for reuse or disposal.
Small Spillages	Same as above
Personal Protection	Goggles and NIOSH approved respirator recommended.

Section 7. Handling and Storage

Electrostatic Accumulation Hazard	N/A
Usual Shipping Containers	Bags, drums.
Storage/Transport Temperature	Ambient. Treat as nuisance dust, sealable containers.
Storage/Transport Pressure	Ambient.
Load/Unload Temperature	Ambient.
Storage and Handling Materials	N/A.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide sufficient ventilation in both volume and airflow patterns to control dust concentrations below allowable exposure limits.
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Personal Protective Equipment	
Eyes	Safety glasses with side shields or chemical goggles. Eyewash fountain should be within direct access.
Skin	None required.
Respiratory Protection	None required; avoid breathing dust. Use NIOSH approved respirator whenever workplace conditions warrant use.
Personal Hygiene	Wash thoroughly after handling
General Hygiene	Equipment in contact with material should be rinsed with water prior to repair and maintenance.



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Exposure Guidelines		
Component	PEL-OSHA	TLV-ACGIH
Aluminum Oxide	TWA 10 mg/m ³ STEL 20 mg/m ³ TWA 5 mg/m ³ RF	TWA 10 mg/m ³ 5 mg/m ³ RF STEL 20 mg/m ³
Zirconium Silicate	5 mg/m ³	5 mg/m ³

Section 9. Physical and Chemical Data

Appearance	White dense powder
Odor	Odorless
pH	4 to 5
Specific Gravity	3.8
Solubility In Water	Dispersible
Solubility In Other Solvents	No
Vapor Pressure	N/A
Melting Point	1927°C / 3500°F
Boiling Point	N/A
% Volatile by volume	10 – 20%

Section 10. Stability and Reactivity

Stability	Stable
Conditions To Avoid	None
Incompatibility (Materials To Avoid)	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicological Information	This product may exhibit a low level of radioactivity common to many naturally occurring minerals. The total uranium and thorium content is less than 0.05%. Any material containing a combined total of 0.05% or more of uranium and thorium must be licensed as regulated under the Atomic Energy Control Regulations. Dust generated from the product is classified as a nuisance dust. The excessive, long term inhalation of mineral dusts may contribute to the development of industrial bronchitis, reduced breathing capacity and may lead to the increased susceptibility to lung disease.
Acute Oral Toxicity	No information.
Acute Dermal Toxicity	No information.
Inhalation Effects	No information.
Irritation to Skin	None.
Irritation to Eyes	Slightly irritating.



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Sensitization Data	No information.
Reproductive toxicity/teratogenicity	No information.
Carcinogenicity/mutagenicity & long term effects	No information.
Epidemiology	No information.
Neurotoxicity	No information.

Section 12. Ecological Information

Biodegradability	Not relevant, inorganic product.
Aquatic toxicity	No information.
Ecological Information	No information.
Environmental Effects	No information.

Section 13. Disposal Considerations

Product disposal	Dispose in accordance with Federal, State and Local Regulations. Zircon may contain traces or radioactive materials, such as uranium and thorium. The combined content of uranium and thorium is less than 500-ppm limit for source materials as set by the Nuclear Regulatory Commission. Zircon mineral products are not currently regulated by the EPA as hazardous wastes, but individual states and localities do have disposal regulations so it advisable to check with them for specific disposal instructions.
RCRA	Not a listed hazard.

Section 14. Transport Information

General	No Information.
Transport Summary	Not classified as dangerous for transport.
UN/ID number	N/A
DOT/TAG	N/A
IMDG (Sea)	N/A
Proper shipping name	Not regulated
Air (ICAO/IATA-DGR)	N/A

Section 15. Regulatory Information

US Federal Regulations	
U.S. TSCA	In compliance
OSHA regulated	Not controlled
SARA 302	Not subject to SARA 302.
SARA 311/312	Not subject to SARA 311/312.
SARA 313	Not subject to SARA 313.
California Proposition 65	Not subject to California Proposition 65.



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CERCLA reportable quantities	In compliance.
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International Regulations	
Canada DSL/NDSL	In compliance
WHMIS classification	D-2A; D-2B

Section 16. Other Information

Abbreviations			
ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
CAS	Chemical Abstract Service	OSHA	Occupational Safety and Health Administration
HMIS	National Paint & Coating Hazardous Materials Identification System	SARA	Superfund Amendment and Reauthorization Act
IARC	International Agency for Research on Cancer	PEL	Permissible Exposure Limit
N/A	Not Applicable	TLV	Threshold Limit Value
NFPA	National Fire Protection Association Hazard Ratings	TWA	Time Weighted Average

HMIS – National Paint & Coating Hazardous Materials Identification System	
1	Health Hazard Rating - Slight
0	Flammability Rating – Minimal
0	Reactivity Rating - Minimal
B	Personal Protection – Safety Glasses, Gloves
NFPA – National Fire Protection Association Hazard Ratings	
1	Health Hazard Rating - Slight
0	Flammability Rating – Minimal
0	Instability Rating - Minimal

The information on this safety data sheet is believed to be accurate and it is the best information available to WesBond Corporation. This document is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. WesBond Corporation makes no warranty of merchantability or any other warranty, express or implied with respect to such information of the product to which it relates, and we assume no liability resulting from the use or handling of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.