S.S. White Technologies, Inc. 151 Old New Brunswick Road, Piscataway, NJ 08854 • Phone 732-752-8300 · 800-SS-WHITE • FAX 732-752-8333

Dunadasat	S.S. White Product Name: AccuBRADE -10	Chemical Family: Refractory Oxide
Product	Blend #: _5	Synonyms: Alumina
Identification	Chemical Name: Alpha Alumina	CAS No.(s): 1344-28-1
	Molecular Formula: Al ₂ O ₃	NFPA Codes (Ratings): Flammability - 0, Health - 1, Hazard - , Reactivity – 0
		, Neactivity – 0
	Materials or Components:	<u>%WW</u>
Hazardous	Alpha Alumina (Aluminum Oxide) Al₂O₃	99.0
Ingredients	Impurities SiO ₂ +Fe ₂ O ₃ +CAO+MgO+NAO+K ₂ O	<1.0
	Hazardous Data (TLV, LD50, LC50, ETC.):	
	TLV (ACG1H) 10 Mg/M³; Not a carcinogen	
Shipping		
Information		
	Boiling Point: NAIF °C °F	Vapor Density (air = 1): NAIF
Physical	Melting Point: 1900 °C °F	Solubility in Water: Insoluble
Properties	- Indianagrama	% Volatiles by Volume: NAIF
	Freezing Point: N/A °C °F	Evaporation Rate: NAIF Ether=1 Water =1 Butylacetate=1
	Molecular Weight(Calculated): NAIF	Appearance and Color: Granular, white, no odor
	Specific Gravity (H ₂ 0+1): 3.95 @ 22°C ROOM (72°F)	Other: NAIF
	Vapor Pressure (mm hg): NAIF @ °C °F	
- ' '	Flash Point: Test Method; NAIF °C °F	Special Fire Fighting Procedures: □ Do not enter building
Fire and Explosion	Flammable Limits: N/A Lower % Upper %	☐ Allow fire to burn ☐ Water may cause frothing
Data	Autoignition temperature: N/A °C °F	☐ Do not use water ☐ Use self-contained breathing apparatus
Data	Extinguishing media: Water Spray Water Fog	4 None
	□ Water Stream □ CO ₂ □ Dry Chemical □ Alcohol foam □	Unusual Fire and Explosion Hazards: □ Dust explosion
	Foam ☐ Earth or sand 4 N/A	hazard ☐ Sensitive to shock ☐ Contamination ☐ Temperature (Specify) 4 None
		- Temperature (opening
Describer	Stability: 4 Stable Unstable	Hazardous Decomposition Products (Thermal and otherwise-
Reactivity	Conditions Contributing to Instability:	list): NAIF
Data	decomposition □ Photo degradation □ Polymerization	Conditions to Avoid: 4 NAIF ☐ Heat ☐ Open flames ☐ Sparks ☐ Ignition sources ☐ Other (Specify)
	□ Contamination	Sparks Ignition sources Other (Specify)
	Incompatibility (Avoid contact with): Strong acids Strong	
	alkalis ☐ Strong oxidizers 4 Other (specify NAIF)	
		W · B
Spill or Leak	Steps To Be Taken If Material Is Released Or Spilled: ☐ Flush	Waste Disposal Method - consult federal, state, or local authorities for proper procedures. Standard landfill methods
op oo	With Water □ Absorb with Sand □ Neutralize or inert	consistent with applicable federal, state, and local laws.
	material 4 Sweep or Scoop up and remove ☐ Keep upwind	
	evacuate enclosure Dispose of immediately Other (specify)	
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Toxicity	Oral (acute): No adverse effects, but ingestion is recommended. Obtain first aid or medical assistance as	Eye (Dust): may irritate eyes, Wash with large amounts of water, obtain first aid or medical assistance, if needed.
Toxiony	needed.	Chronic, Subchronic, Etc.: Inhalation- may affect breathing
	Dermal (acute): Not absorbed through skin; may cause	capacity
	abrasion.	Other Potential Health Risks: Not Known
	Inhalation (acute): May cause coughing, shortness of breath. Remove to fresh air; apply artificial respiration as	
	needed. Obtain first aid or medical assistance as needed.	
Effects of	Permissible Exposure Limit (specify if TLV/TWA or Ceiling [c]): ACGIH 19 86 10 mg/M ³	Sensitization: ☐ Skin ☐ Respiratory ☐ Allergen 4 NAIF
Exposure	Other: OSHA 19.86 15 mg/M ³	Inhalation Effects: ☐ Narcotic effect ☐ Cyanosis
·-l · · ·	<u>Irritation:</u> □ Skin, Severe 4 Skin, Moderate □ Eye, Severe 4	□ Asphyxiant
	Eye, Moderate Eye, Mild(transient)	<u>Lung Effects:</u> 4 Acute, may cause coughing, shortness of breath 4 Chronic, may affect breathing capacity
	Corrosivity: ☐ Skin, 4 hours (DOT) ☐ Skin, 24 hours (CPSC)	Other: Repeated contact skin defatter Other
	☐ Eye, May cause blindness 4 NAIF	(specify) 4 None Known
	Ingestion: □ Induce vomiting □ Do not induce vomiting	<u>Dermal:</u> 4 Flush with soap and water ☐ Get medical attention

Emergency First Aid	□ Give plenty of water 4 Get medical attention □ Other (specify:) Inhalation: 4 Remove to fresh air 4 If not breathing, give artificial respiration □ Give oxygen 4 Get medical attention □ Other (specify)	□ Contaminated clothing, remove and launder □ Contaminated shoes, destroy □ Other (specify) Eye Contact: 4 Flush with plenty of water for at least 15 minutes □ Get medical attention □ Other (specify)	
Special Protection Information	Ventilation Requirements - Always maintain exposure below permissible exposure limits: □ Consult an industrial hygienist or environmental health specialist 4 Local exhaust 4 Use with adequate ventilation □ Check for air contaminant and oxygen deficiency 4 Other (specify See OSHA 29CFR1910.94 and 29CFR1910.1000) Eye: □ Face shield and goggles □ Safety glasses 4 Goggles	Hand (glove type): □ Butyl rubber □ Polyvinyl alcohol □ Polyvinyl chloride □ Neoprene □ Natural rubber □ Polyethylene 4 Other(specify: as desired by the user) Respirator Type- use only NIOSH approved equipment: □ Self-contained □ Supplied air □ Can or cartridge gas or vapor 4 Filter- dust, fume, mist □ Other(specify) Other Protective Equipment: □ Rubber boots □ Apron □ Other(specify) 4 NAIF	
Special Precautions	Precautionary Measures: □ Wash thoroughly after handling □ Do not get in eyes, on skin or clothing □ Do not breathe dust, vapor, mist, gas □ Keep container closed □ Keep away from heat, sparks, open flame □ Store in tightly closed containers □ Do not store near combustibles □ Keep from contact with clothing and other combustible material □ Empty container may contain hazardous residues □ Use explosion proof equipment □ Other(specify) 4 NAIF	Other Handling and Storage Conditions: None	
Prepared By:	Date:		
Carolyn Katchan	March 8, 2003		
Please Note: "The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control. S.S. White makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein. S.S. White disclaims all liability for reliance thereon." ***** NAIF - (NE) No applicable information found. *** N/A - Not applicable.			