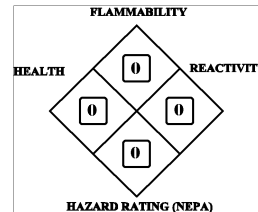


MATERIAL SAFETY DATA SHEET

SECTION I IDENTIFICATION



Date: October 2009

Chemical Name: Aluminum Oxide Trade Name: "C," "S," Alumina
Chemical Family: Metal Oxide (refractory) Formula: Al₂O₃
Part Numbers: D11-0173-101, D11-0173-102, D11-0173-15, D11-0173-50, D11-0281-101 and D11-0281-A

SECTION II COMPOSITION

Component	%	CAS #	OSHA Exp	TLV	Carcinogen
Aluminum Oxide	99+	1344-28-1	15 mg/m ³	10 mg/m ³	No
Impurities (Oxides)	Bal				

SECTION III PHYSICAL AND CHEMICAL DATA

Boiling Pt: N/A Melting Pt: 2072°C Specific Gravity: 3.95
Vapor Pressure: N/A Percent Volatile: N/A Vapor Density: N/A
Evap. Rate: N/A Sol. in water: N/A Sol. in Alcohol: N/A
Solubility in other solvent: N/A
Appearance and odor: Granular powder, white color, odorless

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Method Used: N/A Flammable Limits: N/A
Extinguishing Media: N/A Special Fire Fighting Procedures: N/A
Explosion Potential: None

SECTION V HEALTH, FIRST AID, AND MEDICAL DATA

Risk: Inhalation of dust, dust in eyes.
Acute Health Effects: May cause coughing, shortness of breath.
First Aid Procedures: Remove to fresh air. Apply artificial respiration if needed.
Wash eyes with water if required. Obtain medical help.

SECTION VI CORROSIVITY AND REACTIVITY DATA

Stability: Stable Polymerization: N/A Incompatibility: N/A
Decomposition Products: N/A Conditions to be avoided: N/A

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

Normal Storage and Handling: Use adequate ventilation for nuisance dust.
Normal Use: Same as above.
In Case of Spills: Same as above. Use respirators.
Waste Disposal: Standard landfill methods.

SECTION VIII PERSONAL PROTECTION INFORMATION

Respiratory Protection: Approved dust respirator recommended.
Ventilation: Recommended.
Eye Protection: Goggles recommended.
Gloves: If desired by user.
Other: N/A

SECTION IX SPECIAL PRECAUTIONS

No special precautions required.