

Section 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Chemical Name: Aluminum Oxide, Hydrate	Supplier Information: Integra Global Corporation 371 Edgemont Lane Park Ridge, IL 60068 USA
Product Name: aSORB®	
Synonym: Activated Alumina	
Emergency Assistance: Telephone: + 1.847.292.8600	Telephone: + 1.847.292.8600 Fax: + 1.847.292.8601

Section 2: COMPOSITION & INFORMATION ON INGREDIENTS		
CAS Number	Ingredient	Weight in Percent (%)
1344-28-1	Aluminum Oxide, Hydrate	94-100

Section 3: HAZARDS IDENTIFICATION	
Inhalation:	Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Exposure to high concentrations may cause coughing and difficulty breathing.
Ingestion:	No adverse health effects are expected from swallowing.
Skin Contact:	May cause skin irritation. May cause dermatitis.
Eye Contact:	Large amounts of dust may cause mechanical irritation.
Chronic Health Hazards:	Prolonged or repeated exposure to dust may cause pulmonary problems.
Aggravated Medical Conditions:	Pulmonary disorders, Permal ailments.

Section 4: FIRST AID MEASURES	
Inhalation:	Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.
Ingestion:	Not a hazard under normal use conditions. If large quantities are ingested, seek medical advice.
Skin Contact:	Wash with soap and water. Get medical attention if irritation persists.
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Section 5: FIRE & EXPLOSION DATA	
Flammability of the Product:	Non-flammable.
Auto-Ignition Temperature:	Non-flammable.
Flash Points:	Not applicable.
Flammable Limits:	Not applicable.
Products of Combustion:	Not available.
Fire Hazards in Presence of Various Substances:	Not applicable.
Explosion Hazards in Presence of Various Substances:	Not applicable.
Risks of explosion of the product in presence of mechanical impact:	Not available.
Risks of explosion of the product in presence of static discharge:	Not available.
Fire Fighting Media and Instructions:	Not applicable.
Special Remarks on Fire Hazards:	Chlorine Trifluoride reacts violently with Aluminum Oxide producing a flame.
Special Remarks on Explosion Hazards:	Not available.

Section 6: ACCIDENTAL RELEASE MEASURES	
Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: HANDLING & STORAGE	
Storage:	Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Do not store above 24°C (75°F).

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering Controls:	Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection:	Safety glasses. Lab coat. Gloves. Dust respirator. Be sure to use an approved certified respirator or equivalent. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
Exposure Limits:	OSHA PEL 5 (mg/m ³) Inhalation Respirable 15 (mg/m ³) ACOM TLV 10 (mg/m ³)

Section 9: PHYSICAL & CHEMICAL PROPERTIES	
Physical state:	Solid (Balls)
Odor:	Odorless
Color:	Off-white.
pH:	9.4 - 10.1
Boiling Point °C:	2050
Bulk Density:	620-630 kg/m ³
Solubility (in water):	insoluble

Section 10: STABILITY & REACTIVITY	
Stability:	The product is stable.
Instability Temperature:	Not available.
Conditions of Instability:	Incompatible materials, moisture (absorbs water with evolution of heat), dust generation.
Incompatibility with various substances:	Contact with water may produce significant amount of heat.
Hazardous Decomposition Products:	Not available.
Polymerization:	None anticipated.

Section 11: TOXICOLOGICAL INFORMATION	
Routes of Entry:	Inhalation, Ingestion.
Toxicity to Animals:	
LD50:	Not available.
LC50:	Not available.
Special Remarks on Toxicity to Animals:	Not available.
Chronic Effects on Humans:	Carcinogenic Effects: A4 (Not classifiable for human or animal) by ACGIH. TERATOGENIC: Classified None for human. Other Toxic Effects on Humans: Slightly hazardous in case of skin contact, ingestion, or inhalation. Special Remarks on Chronic Effects on Humans: May cause cancer (tumorigenic) according to animal data. Special Remarks on other Toxic Effects on Humans: Not available.
Acute/Chronic Potential Health Effects:	
Skin:	May cause skin irritation. The product gets hot as it adsorbs water. Burns to moist or wet skin tissue may result if contact is prolonged.
Eyes:	Dust may cause eye irritation.
Ingestion:	The product gets hot as it first adsorbs water. Burns to moist body tissues may result if contact is prolonged.
Inhalation:	Exposure to dust particles generated from this material may cause irritation of the respiratory tract and may cause lung injury.

Section 12: ECOLOGICAL INFORMATION	
Environmental Fate:	No data available.
Ecotoxicological Information:	No data available.

Section 13: DISPOSAL CONSIDERATIONS	
Waste Disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
US EPA Waste Number:	Not required.

Section 14: TRANSPORT INFORMATION	
DOT Classification:	Not a DOT controlled material (United States).
Identification:	Not applicable.
Special Provisions for Transport:	Not applicable.

Section 15: OTHER REGULATORY INFORMATION	
Federal and State Regulations:	California, Massachusetts, New Jersey, Illinois, Minnesota, RI: Aluminum Oxide
TSCA Risk Inventory:	Aluminum Oxide
SARA 311/312:	Acute Health Hazard.
SARA 313:	No.
CAA 612 Ozone Depleting Substances:	This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and CFR Part 82.
Other Classifications:	
WHMIS (Canada):	Class D Division 2 Subdivision B
HMS (U.S.A.):	
Health Hazard:	2
Fire Hazard:	0
Reactivity:	0
Personal Protection:	E
National Fire Protection Association (U.S.A.):	
Health:	2
Flammability:	0
Reactivity:	0
Protective Equipment:	Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: OTHER INFORMATION	
References:	Not available.
Other Special Considerations:	Not available.
Created:	04/01/2008 10:20 AM
Last Updated:	07/25/2009 4:50 PM
The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Integra Global Corporation be liable for an claim, losses, or damages of any third party or lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if Integra Global Corporation has been advised of the possibility of such damages.	