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Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

ACTIVATED ALUMINA

Section 1: Identification of the substance/preparation & company/undertaking	
Substance & Preparation	Company/undertaking identification
Product name: Activated Alumina	Identification: Manufacturer & Supplier
Appearance and odorless: White powder or granules; odorless.	SORBEAD INDIA 305-306, Prayosha Complex, Chhani Jakat Naka, Next to Hyundai Motors Show Room, Vadodara-390024, Gujarat, India.
Uses: Catalyst support, desiccant, absorbent, adsorbent.	
Synonyms: Activated Alumina Grade A & AA, Alumina Active Grade A & AA, Aluminum Oxide, Alumina Desiccant, Catalyst Alumina, Adsorbent Alumina.	
Chemical Name: Aluminium Oxide	Tel: +91-98-240-50661 Fax: +91-265-2761142
Chemical Formula: Al ₂ O ₃	E-mail: sales@sorbeadindia.com
Emergency Telephone Number- 1800-233-2677	Order Online: www.sorbeadindia.com

Section 2: Composition and Information on Ingredients

Composition:

Aluminium Oxide	Cas#	LD50	LC50	Symbol R phrases	Conc.
Aluminium Oxide	1344-28-1	Unknown	Unknown	None	93-95%
Moisture	7732-18-5	None	None	None	3-5%

Section 3: Hazards Identification

Non-hazardous.

Section 4: First Aid Measures

Inhalation: If overcome by high dust concentrations, remove to a ventilated area.

Skin contact: Wash skin thoroughly with soap and water.

Eye contact: Flush eyes thoroughly with water, taking care to rinse under eye lids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician. Do not scrub, since the abrasion may cause irritation.

Ingestion: Not Applicable.

Section 5: Fire Fighting Measures

Extinguishing Media: Non-combustible

Hazardous Combustion Products: Not applicable

Section 6: Accidental Release Measures

Collect solids.

Recycle if possible.

Section 7: Handling and storage

Handling Precautions: Avoiding generating dust during handling.

Storage Conditions: Not applicable.

Section 8: Exposure controls/personal protection

Provide general and local ventilation to maintain concentrations of air contaminants below recommended standards. Wear eye and respiratory protection (goggles and mask), or a full-face respirator if necessary.

Exposure Limits:

(ACGIH = American Conference of Governmental Hygienists; TLV = Threshold Limit Value; OSHA = Occupational Safety and Health Administration (USA); PEL = Permissible Exposure Limit; TWA = Time-Weighted Average; STEL = Short Term Exposure Limit; Ceiling = Ceiling Value)

<i>Alumina</i>	<i>ACGIH (TLV)</i>		<i>ACGIH (TLV)</i>	
	<i>TWA</i>	<i>STEL</i>	<i>TWA</i>	<i>Ceiling</i>
Aluminum oxide (total dust)	10mg/m ³	None	15mg/m ³	None
Respirable dust	None	None	5mg/m ³	None

Section 9: Physical and chemical properties

PH	Not applicable
Boiling point	Not applicable
Melting point	2050 C
Vapor pressure	Not applicable
Vapor density(air=1)	Not applicable
Evaporation rate	Not applicable
Relative density(water =1)	3.0 – 3.7
Water solubility	Insoluble
flashpoint	Not applicable
Auto ignition temp.	Not applicable
Lower flammable limit	Not applicable
higher flammable limit	Not applicable
Odor threshold	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Partition coefficient (n-octanol/water)	Not applicable

Section 10: Stability and Reactivity Data

Stable (yes/no): Yes

Conditions and material to avoid: Not applicable.

Hazardous decomposition products: Not applicable

Section 11: Toxicological information

Routes of exposure:

- **Inhalation:** Yes
- **Ingestion:** No
- **Eye contact:** No
- **Skin contact:** No
- **Skin absorption:** No

Acute Effects:

Inhalation: Inhalation of high concentrations of these inert nuisance particulates can result in mild irritation of the respiratory tract.

Skin contact: May cause irritation through mechanical abrasion.

Eye contact: May cause irritation through mechanical abrasion.

Ingestion: Not applicable.

Chronic Effects:

Medical conditions aggravated by exposure to the product: Not applicable.

Carcinogenicity / Mutagenicity / Reproductive toxicity: None of the ingredients present at concentrations equal to or greater than 0.1% are listed as carcinogen or potential carcinogen by LARC, NTP or OSHA, (LARC=International Agency for Research on Cancer; NTP=National Toxicology Program (USA); OSHA=Occupational Safety and Health Administration (USA).

Supplementary information: Activated alumina may adsorb certain gases and liquids. While alumina itself is principally inert, it may exhibit properties of the adsorbed material

Section 12: Ecological information

Activated alumina may adsorb certain gases and liquids. While alumina itself is principally inert, it may exhibit properties of the adsorbed material.

Section 13: Disposal information

Recycle if possible. This substance is inert and does not require special disposal methods. Dispose of waste in accordance with federal, state, or local regulations.

Section 14: Transport information

TDGR: Not regulated

CFR 49: Not regulated

IMO: Not regulated

ICAO: Not regulated

IATA: Not regulated

(TDGR= Transport of Dangerous Goods Regs. (Canada); CFR 49= Code of Federal Reg. (USA); IMO International Maritime Organization; ICAO= International Civil Aviation Organization; IATA=International Air Transport Association)

Section 15: Regulatory information

WHMIS CLASSIFICATION (Canada): Not controlled

EFC CLASSIFICATION (Europe): Not classified

Warning symbol: None

Warning word: None

Risk phrases: None

Safety phrases: None

USA REGULATIONS:

Section 313 Supplier Notification

This product contains no chemical in concentrations subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (Title III of SARA) and of 40 CFR 372.

TSCA-DSL (USA – Canada)

This substance or all the ingredients of these products are on the Domestic Substance List (DSL – Canadian Environmental Protection Act (Canada) as well as a Chemical Substance Control Act (TSCA inventory (USA)). The presence on these lists does not require any legal reporting.

Section 16: Other information

National Fire Protection Agency (NDPA) codes (Health, Flammability, and Reactivity): 0, 0, 0

Hazardous Material Information Systems (HMIS) codes (Health, Flammability, and Reactivity): 0, 0, 0

Abbreviations:

CAS #= Chemical Abstracts Service Registry Number,

EC= European Community

LD50= Lethal dose 50%

LC50= Lethal concentration 50%

LCL0= lowest published lethal concentration.

Notice: Although the information in this MSDS was obtained from sources which we believe to be reliable, it cannot be guaranteed. In addition, this information may be used in a manner beyond our knowledge or control. The information is therefore provided for advice purposes only, without any representation or warranty express or implied.