

# **MATERIAL SAFETY DATA SHEET**

## ► SECTION 1 – IDENTIFICATION

Product Name : Activated Alumina

Appearance and odorless : White powder or beads Identified Uses : Manufacturer & Supplier

Synonyms : Adsorbent, Desiccant, Catalyst

Chemical Name : Aluminium Oxide

Chemical Formula : Al2O3

Emergency Telephone Number: 1800-233-2688

Supplier : Starke Aquacare Technologies

Address : 17 Najafgarh Road New Delhi India 110015

Telephone Number : 91-11-47009571 Fax Number : 91-11-47009570

E-mail : info@starkfiltermedia.com

## ► SECTION 2-COMPOSITION AND INFORMATION ON INGREDIENTS

# **Composition:**

Name	Cast#	Ld50	Ld50		ective R Phrases	Concentration
Aluminium Oxide	1344-28-1	Unknown	Unknown	None	None	93-95%
Moisture	7732-18-5	None	None	None	None	3-5%

#### ► SECTION 3: HAZARDS IDENTIFICATION

# Non-hazardous.

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.



# ► SECTION 4: FIRST AID MEASURES

**Eye contact:** Flush eyes thoroughly with water, taking care to rinse under eyelids. 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.

**Skin contact:** Wash skin thoroughly with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

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

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie or belt. Get medical attention if symptoms appear.

## ► SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media:** Use fire fighting measures that suit the environment.

**Hazardous combustion:** Wear self-contained respiratory protective device. Wear fully protective suit.

### ► SECTION 6: ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective clothing.

**Measures for environmental protection:** No special measures required.

**Measures for cleaning/collecting:** Clean up using dry procedures; avoid dusting.

**Additional information:** No dangerous substances are released.

#### SECTION 7: HANDLING AND STORAGE

**Handling precautions:** Avoiding generating dust during handling. Ensure good ventilation/exhaust at the workplace. Prevent formation of dust.

**Storage conditions:** Keep material dry. Storage in one common storage facility is not required.



### ► 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.

**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)

Aluminium Oxide	ACGIH	I (TLV)	OSHA (PEL)		
	TWA	STEL	TWA	STEL	
Total Dust	10mg/m³	None	10mg/m³	None	
Respirable Dust	None	None	5mg/m³	None	

## ► SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

: Off-white spherical Appearance Flashpoint : Not applicable Ρh : Not Applicable Auto ignition temp. : Not applicable : Not Available **Boiling** point Lower flammable limit : Not applicable Melting point : 2050°C Higher flammable limit : Not applicable Vapor pressure : Not Applicable Odor threshold : Not applicable Vapor density (air=1) : Not Available Explosive properties : Not applicable Oxidizing properties : Not applicable Evaporation rate : Not Available Relative density (water=1) : Not Applicable Partition coefficient : Not applicable

Water solubility : Insoluble (n-octanol/water)

## ► SECTION 10: STABILITY AND REACTIVITY DATA

**Chemical stability:** A rise in temperature may result from contact with water.

Incompatibility: None.

**Hazardous decomposition products:** None. If used according to specifications.

Hazardous Polymerization: None. Non-corrosive



### ➤ SECTION 11: TOXICOLOGICAL INFORMATION

# **Routes of exposure**

Inhalation: Yes
Ingestion: No
Skin contact: No
Skin adsorption: No
Eye contact: Yes

### **Acute Effects**

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

**Ingestion:** Not applicable.

**Skin contact:** May cause irritation through mechanical abrasion. **Eye contact:** May cause irritation through mechanical abrasion.

## **Chronic Effects**

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

**Carcinogenicity / Mutagenicity / Reproductive toxicity:** One 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= Internation 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

No effects are expected from this insoluble product because insolubility leads to non-bioavailability.

## SECTION 13: DISPOSAL INFORMATION

Check for recycling, if possible.

This substance is inert and does require special disposal methods.

Dispose of waste in accordance with federal, state, or local regulations.



### ► SECTION 14: TRANSPORT INFORMATION

**TDGR (Transport of Dangerous Goods Regulations) (Canada):** Not classified as a dangerous goods under transport regulations.

**CFR 49 (Code of Federal Regulations) (USA):** Not classified as a dangerous goods under transport regulations.

**IMO** (International Maritime Organization): Not classified as a dangerous goods under transport regulations.

**ICAO** (International Civil Aviation Organization): Not classified as a dangerous goods under transport regulations.

**IATA (International Air Transport Association):** Not classified as a dangerous good under transport regulations.

### SECTION 15: REGULATORY INFORMATION

WHMIS Classification (Canada): Not controlled EFC Classification (Canada): 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.

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