
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Actiguard S

PRODUCT NUMBER: 000151 (P6323)

SUPPLIER: Rio Tinto Alcan (RTA)
Bauxite and Alumina
1188 Sherbrooke West
Montréal, Québec
Canada
H3A 3G2
* Please call collect for outside calls of North America.

Emergency phone: **1-800-567-7455***
Phone : 514 848-8000
Fax : 514 848-8115/8116

****See section 16 for producer(s) identification****

SYNONYMS: AA-230MS; AA-240MS; AA-400S

APPEARANCE AND ODOUR: White powder or granules; odourless.

USES: Absorbent.

2. COMPOSITION / INFORMATION ON INGREDIENTS

| NAME | CAS # | LD ₅₀ | LC ₅₀ | CONC. |
|------------------|-----------|-----------------------|------------------|----------|
| *Aluminum oxide | 1344-28-1 | Unknown | Unknown | 83 - 94% |
| Sodium carbonate | 497-19-8 | 4090 mg/kg (oral-rat) | Unknown | 3 - 10% |
| Moisture | 7732-18-5 | None | None | 3 - 7% |

*under the form of activated alumina

3. HAZARDS IDENTIFICATION

Irritation of respiratory tract and eyes.

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 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.

INGESTION: Not applicable

5. FIRE-FIGHTING MEASURES

| | |
|---------------------------------------|--|
| EXTINGUISHING MEDIA: | Non combustible. Use an extinguishing medium suited to the surrounding material. |
| HAZARDOUS COMBUSTION PRODUCTS: | If heated to decomposition, may produce carbon and sodium oxides. |

6. ACCIDENTAL RELEASE MEASURES

Collect solids. Recycle if possible.

7. HANDLING AND STORAGE

| | |
|------------------------------|--|
| HANDLING PRECAUTIONS: | Avoid generating dust during handling. |
| STORAGE CONDITIONS: | Handle and store away from humidity and incompatible materials such as strong acids. |

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. Wear gloves and appropriate clothing.

EXPOSURE LIMITS:

| | ACGIH (TLV) | | OSHA (PEL) | |
|-----------------------------|----------------------|------|----------------------|---------|
| | TWA | STEL | TWA | CEILING |
| Aluminum oxide (total dust) | 10 mg/m ³ | None | 15 mg/m ³ | None |
| - Respirable dust | None | None | 5 mg/m ³ | None |

(ACGIH = American Conference of Governmental Industrial 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; C = Ceiling value)

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|----------------------------|---|----------------|
| PH: | (1% aqueous solution) : 10 | FLASHPOINT: | Not applicable |
| BOILING POINT: | Not applicable | AUTOIGNITION TEMPERATURE: | Not applicable |
| MELTING POINT: | Not determined | LOWER FLAMMABLE LIMIT: | Not applicable |
| VAPOUR PRESSURE: | Not applicable | HIGHER FLAMMABLE LIMIT: | Not applicable |
| VAPOUR DENSITY (AIR = 1): | Not applicable | EXPLOSIVE PROPERTIES: | Not applicable |
| EVAPORATION RATE: | Not applicable | ODOUR THRESHOLD: | Not applicable |
| RELATIVE DENSITY (WATER = 1): | 3.0 - 3.7 | OXIDIZING PROPERTIES: | Not applicable |
| WATER SOLUBILITY: | Slightly soluble. | PARTITION COEFFICIENT (N-OCTANOL/WATER): | Not applicable |

10. STABILITY AND REACTIVITY

STABLE (YES/NO): Yes

CONDITIONS AND MATERIAL TO AVOID: Store away from acids and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: If heated to decomposition, may produce carbon and sodium oxides.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:

INHALATION: Yes

INGESTION: No

EYE CONTACT: Yes

SKIN CONTACT: Yes

SKIN ABSORPTION: No

ACUTE EFFECTS:

INHALATION: Dust may irritate the respiratory system.

SKIN CONTACT: May cause irritation through mechanical abrasion.

EYE CONTACT: May cause irritation, redness, burns.

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 a carcinogen or potential carcinogen by IARC, NTP or OSHA.

[IARC = 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.

12. ECOLOGICAL INFORMATION

Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

TDGR: not regulated **CFR 49:** not regulated **IMO:** not regulated **ICAO:** not regulated **IATA:** not regulated

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

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION (CANADA): D2B Toxic material causing other toxic effects.

EUROPEAN UNION CLASSIFICATION:

WARNING SYMBOL: Xi

WARNING WORD: Irritant

RISK PHRASES: R36: Irritating to eyes.

SAFETY PHRASES: S22 : Do not breathe dust. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

USA REGULATIONS :

Section 313 Supplier Notification

This product does not contain any chemicals 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 this product are on the Domestic Substances List (DSL - Canadian Environmental Protection Act [Canada]) as well as on the Chemical Substances Inventory of the Toxic Substances Control Act (TSCA Inventory [USA]). The presence on these lists does not require any legal reporting.

16. OTHER INFORMATION

Suppliers or plants :

Rio Tinto Alcan (RTA)
Bauxite and Alumina
Brocville Works
4000, Development Drive
Brookville, Ontario, Canada
K6V 5V5

Emergency phone : 1-800-567-7455*
Phone : 1-613-342-7462
Fax : 1-613-342-6943

* Please call collect for outside calls of North America.

ABBREVIATIONS:

WHMIS = Working hazardous material information system. CAS number = Chemical Abstracts Service Registry Number.
LD₅₀ = Lethal dose 50%; LC₅₀ = Lethal concentration 50%; LCL₀ = Lowest published lethal concentration. EU = European Union.

*** Although the information in this SDS 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. ***

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DATE OF THE PREVIOUS REVISION: 2008-07-23

REASON FOR REVISION: Modification in section 1.