
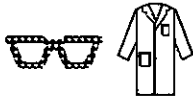





Material Safety Data Sheet

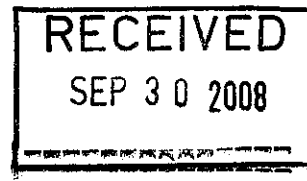
Validated and verified by: Regulatory Affairs / Affaires réglementaires

Validation date 7/7/2008.

WHMIS 	Protective Clothing 	TDG Road / Rail 
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Section 1: Chemical product and company identification

ALUMINA POLYFILL 110



Code : Q05475
 Synonym : Not available.
 Manufacturer : Custom Grinders
 Supplier : QUADRA CHEMICALS LTD.
 370, boul. Joseph-Carrier
 Vaudreuil-Dorion QC J7V 5V5
 Tel: (450) 424-0161

Burlington ON Tel: (905) 336-9133
 Delta BC Tel: (604) 940-2313
 Edmonton AB Tel: (780) 451-9222
 Calgary AB Tel: (403) 232-8130

Material uses : Industrial applications

**TRANSPORTATION EMERGENCY - 24HRS/DAY - 7 DAYS/WEEK
 IN CANADA - CALL 1-800-567-7455**

Section 2: Composition, information on ingredients

Name	CAS #	% by weight	Exposure limits
aluminum hydroxide	21645-51-2	60-100	OSHA PEL - General dust: 5mg/m ³ respirable dust, 8hrs TWA. 15mg/m ³ total dust, 8hrs TWA.
sodium carbonate	497-19-8	1-5	Not available.

Consult local authorities for acceptable exposure limits.

Section 3: Hazards identification

Emergency overview : MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Routes of entry : Inhalation. Ingestion.

Potential acute health effects

Eyes : May cause mild eye irritation.
Skin : May cause mild skin irritation.
Inhalation : May cause respiratory tract irritation.
Ingestion : No specific hazard.

Potential chronic health effects : **CARCINOGENIC EFFECTS** Not available.
MUTAGENIC EFFECTS Not available.
TERATOGENIC EFFECTS Not available.
DEVELOPMENTAL TOXICITY Not available.

Medical conditions aggravated by overexposure : Pre-existing respiratory disorders.

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Over-exposure signs/symptoms : No additional information.

See toxicological Information (section 11)

Section 4: First aid measures

- Eye Contact** : IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. Seek immediate medical attention.
- Skin Contact** : Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention.
- Inhalation** : Allow the victim to rest in a well ventilated area. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.
- Ingestion** : DO NOT induce vomiting. If the victim is conscious, give a little water or milk. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.
- Notes to Physician** : No additional information.

Section 5: Fire fighting measures

- Flammability of the product** : Non-flammable.
- Auto-ignition Temperature** : Not applicable.
- Flash Points** : Not applicable.
- Flammable limits** : Not applicable.
- Products of combustion** : Not applicable.
- Fire hazards in presence of various substances** : Not applicable.
- Explosion hazards in presence of various substances** : 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** : Use extinguishing media suitable for surrounding fire. Wear NIOSH approved self-contained breathing apparatus (SCBA) when either in confined areas or exposed to combustion products.

Section 6: Accidental release measures

- Spill or leak** : Use appropriate tools to put the spilled material in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to federal, provincial and municipal environmental control regulations.

Section 7: Handling and storage

- Handling** : Follow routine safe handling procedures.
- Storage** : Keep container tightly closed. Keep in a cool, dry and well ventilated place. Avoid dust generation. Store away from incompatible materials.

Section 8: Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dusts below their respective threshold limit value. Ensure that eye stations and safety showers are proximal to the work-station location.

Personal protection

- Eyes** : Safety glasses.
- Body** : Lab coat.
- Respiratory** : If user operations generate dust, fume, mist or if workplace contaminant level is above threshold limit, ensure to use a MSHA/NIOSH approved respirator or equivalent.
- Hands** : Gloves.
- Feet** : Safety shoes.

Section 9. Physical and chemical properties

Physical State and Appearance : Solid. (Powder.)
 Color : White.
 Odor : Odourless.
 Molecular formula : $\text{Al}(\text{OH})_3$
 Melting/freezing point : 2050 °C (3722 °F)
 Specific Gravity : 3.7 to 3.9 (Water = 1)
 Solubility : Insoluble in water.

Section 10. Stability and reactivity

Stability and Reactivity : The product is stable.
 Conditions of instability : No additional remark.
 Incompatibility with various substances : When exposed to fire or heat, hydrated alumina loses its water of crystallization beginning at 300 °C.
 Hazardous Decomposition Products : Not available.
 Hazardous polymerization : Will not occur.

Section 11. Toxicological information

Toxicity data : Acute oral toxicity (LD50): 4000 mg/kg [Rat]. (Sodium carbonate).
 Chronic effects on humans : No additional information.
 Other toxic effects on humans : No additional information.
 Remarks on toxicity to animals : No additional information.

Section 12. Ecological information

Ecotoxicity data : Not available.
 Remarks on the products of biodegradation : No additional remark.

Section 13. Disposal considerations

Waste information : Waste and empty packaging must be disposed of in accordance with federal, provincial, and municipal environmental control regulations.
 Waste stream : Avoid entry of product into the sewage system or water streams.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory Information	Shipping name and Class	UN number	Packing group
TDG Classification	Not regulated under TDG (Canada).	Not applicable.	Not applicable.

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Section 15: Regulatory information

- WHMIS (Canada) : Not a WHMIS controlled material.
- DSL (CEPA) : CEPA DSL: All ingredients are listed or exempted.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.

Section 16: Other information

- References : Canadian Guide of the Law and Regulations of the Transportation of the Dangerous Goods.
Manufacturer's Material Safety Data Sheet.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
- Other special considerations : No additional remark.
- Regulatory Affairs Department : (450) 424-0161

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.