

SPODUMENE CONCENTRATE
MATERIAL SAFETY DATA SHEET

Date issued : December 1992

Section 1 - General

Product : Spodumene Concentrate
 Trade Name : Spodumene Concentrates
 Producer : Gwalia Consolidated Ltd
 16 Parliament Place
 West Perth 6005
 Western Australia
 Telephone : (61 9) 481 1988
 Facsimile : (61 9) 481 1271

Section 2 - Chemical and Physical Data

Description of Material : Mixture of naturally occurring silicates and quartz.
 Major Constituents : Spodumene [LiAl(Si₂O₆)] 95%
 Quartz (SiO₂) <5%
 Appearance : Dry, fine sand
 Colour : White to beige
 Smell : Very faint smell of tall oil
 Specific Gravity : 3.1
 Bulk Density : 1.5 tonnes/m³

Section 2 - Chemical and Physical Data (cont'd)

Molecular Weight : Not applicable, complex mixture of minerals

Melting Point : Incipient fusion at 1375°C

Boiling Point : N/A

Solubility : Insoluble in water and common dilute acids.
Soluble in Hydrofluoric Acid.

Section 3 - Physical Hazards

Material is non-combustible, non-reactive, stable.

Section 4 - Health Hazard Data

Toxicity : Mineral is inert and non-toxic.

TLV (total mass) 0.3 mg/m³. Prolonged and repeated exposure to dust may cause silicosis.

First Aid :
Eyes: Flush with water for at least 15 minutes with eyelids open.
Skin: Wash well with water and soap.
Inhalation: Remove person to fresh air. Consult with physician.

Potential for Carcinogenicity : Spodumene is not listed as a carcinogen or potential carcinogen by the National Toxicology Program of the US Public Health Service, nor has it been found to be a carcinogen or potential carcinogen by OSHA or the International Agency for Research for cancer. Gwalia Consolidated Ltd is not aware of any data indicating that spodumene produces cancer.

Section 5 - Spill or Leak Procedures

Should be cleaned up by methods appropriate for dusty materials and disposed of in compliance with federal, provincial/state and local laws as they apply to non-hazardous material.

Section 6 - Handling Precautions

Respiratory Protection : NIOSH/MSHA approved respirator is recommended when working in dusty conditions.

Eyes and Face : Safety glasses are recommended when any possibility of dust particles entering the eyes exists.

Other Protective Clothing : Gloves and other protective clothing may be worn if contact is appreciable.

Section 7 - Hazard Rating Summary

Health : Slight
 Flammability : Minimal
 Reactivity : Minimal
 Personal Protection : Dust Respirator and Safety Glasses

Section 8 - Use of this Data

The data in this material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Gwalia Consolidated Ltd believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a licence to operate under or a recommendation to infringe any patents. Any use of these data and information must be determined by the user to be in accordance with Federal, State and Local laws and regulations.

LITHIUM AUSTRALIA

FINE SPODUMENE CONCENTRATE LOT 20054/94
F & S ALLOYS & MINERALS CORP./TRINITY CERAMIC SUPPLY INC.
ORDER NO. 9051
ANALYSIS CERTIFICATE
ECN No. 5F932932774DUC

ANALYSIS %		SIZE	SIZING CUMULATIVE WT% RETAINED
Li2O	7.43		
Fe2O3	0.07		
MnO	0.03	+ 500	0.0
Al2O3	26.62	+ 210	0.00
SiO2	64.66	+ 180	0.07
Na2O	0.12	+ 125	0.56
K2O	0.25	+ 90	2.08
P2O5	0.29	+ 75	5.34
CaO	0.03	+ 45	34.87
TiO2	< 0.01		

Fe₂O₃ <0.30% Guaranteed



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