. Tantalum Mining Corporation of Canada Ltd.

SECTION 3 – CHEMICAL AND PHYSICAL DATA		
Description of Material:	Complex mixture of naturally occurring silicates.	
Appearance:	Dry fine sand.	
Colour:	White to pale fawn.	
Smell:	Very faint smell of tall oils.	
Specific Gravity:	3.05.	
Molecular Weight:	Not applicable, complex mixture of minerals.	
Melting Point:	Incipient fusion at 1375°.	
Boiling Point:	Not applicable.	
Solubility:	Insoluble in water and common dilute acids. Soluble Hydrofluoric Acids.	
Major Constituents:	Spodumene Concentrate – Standard Grade Spodumene [(LiAl(SiO _c)] 90-95%, Quartz (SiO ₃) 5-6%, Sodium Feldspar [Na(Si-O ₂)] 0 5-1 0%	

Sodium Feldspar [Na(Si₃O₄)] 0.5-1.0%, Potassium Feldspar [K(Si₃O₄)] 0.5-2.0%, Montebrasite/Amblygonite 0.25-0.50%

Spodumene Concentrate - -200 Mesh Grade Spodumene [(LiAl(SiO₆)] 88-90% Quartz (SiO₂) 4-6% Sodium Feldspar [Na(alSi₂O₈)] 1-2% Potassium Feldspar [K(AlSi₂O₈)] 2-3% Montebrasite Amblygonite 0-1%

Spodumene Concentrate – Glassmaker's Grade Spodumene [LiAl(SiO6)] 84-88% Quartz (SiO₂) 4-10% Sodium Feldspar [Na(AlSi₃O₆)] 1-2% Potassium Feldspar [K(AlSi₃O₆)] 2-3% Montebrasite/Amblygonite 0-1%

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PHONE 204-884-2400 FAX 204-884-2211 T.



TRADE NAME TANCO

Tantalum Mining Corporation of Canada Limited BOX 2000, LAC DU BONNET MANITOBA, CANADATROE 1AD

MATERIAL SAFETY DATA SHEET

WHMIS CLASSIFICATION: D2A



SECTION 1 – PRODUCT IDENTIFICATION AND USE

Material Identifier:	Spodumene Concentrate
Trade Name:	TANCO – Spodumene Concentrate – Standard Grade TANCO – Spodumene Concentrate200 Mesh Grade TANCO – Spodumene Concentrate – Glassmaker's Grade TANCO – Spodumene Concentrate – Spodulite Grade
Manufacturer:	Tantalum Mining Corporation of Canada Limited P.O. Box 2000 Lac du Bonnet, MB ROE 1A0 Canada

Telephone Number:	(204) 884-2400 ext. 242	T. Tonner	(DAY)
-	(204) 345-6399	W. Ferguson	(EMERGENCY)
	(204) 345-8621	S. Young	
	(204) 785-8212	T. Tonner	

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Ingredients	%	UN, NA or CAS Number	LD ₅₀ of Material r (Specify Species a	LC _{so} of N and Route)	
Silica, crystalline (alpha quartz)	5%	1302-66-5	500 mg/kg	Unknowr	n TC ₁₀ = 50 mg/M ³ (R a t)

PEL (Total Mass) = 0.1 mg/M³ TLV (Respirable Mass) - 0.1 mg/M³ Known human carcinogen, IRAC Group 1 Tantalum Mining Corporation of Canada Ltd.

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Reactivity, and Under What Conditions:	Not Applicable.		
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Hazardous Decomposition Products: Not

Not Applicable.

SECTION 6 - TOXICOLOGICAL PROPERTIES

- Toxicity: Mineral fraction is inert and non-toxic. Crystalline silica fraction is carcinogenic in laboratory animals by inhalation and injection routes.
- Dust:Should be treated as other products containing quartz. (Quartz: TLV
(Total Mass) 0.1 mg/m³. Prolonged and repeated exposure to dust may
cause silicosis. Increased rates of lung cancer also have been reported among
workers overexposed to quartz dust.

SECTION 7 – PREVENTATIVE MEASURES

Respiratory Protection:	NOAH/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.	

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Other Protective Clothing:	Gloves and other protective clothing may be worn if contact is appreciable.
Leak and Spill Procedure:	Should be cleaned up by methods appropriate for dusty materials.
Waste Disposal:	Dispose of in compliance with federal, provincial/state and local laws as they apply to non-hazardous material.

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Tantalum Mining Corporation of Canada Ltd.

Chemical Analysis:

(Typical) Spodumene Concentrate - Standard Grade

7.25-7.50%	MnO ₂	0.010-0.060%
0.15-0.30%	Fe ₂ O ₃	0.040-0.070%
0.05-0.20%	Al,O,	24.0-27.0%
0.05-0.30%	SiO ₂	60.0-65.0%
	7.25-7.50% 0.15-0.30% 0.05-0.20%	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

(Typical) Spodumene Concentrate - -200 Mesh Grade

Li ₇ O	7.10-7.30%	MnO ₂	0.010-0.060%
<u>Na</u> ,O	0.15-0.30%	Fe ₂ O ₁	0.060-0.120%
K,O	0.15-0.35%	Al ₂ O ₃	24.0-27.0%
P,O,	0.15-0.35%	SiO ₂	64.0-68.0%

(Typica!) Spodumene Concentrate – Glassmaker's Grade

Li,O	6.80-7.00%	MnO ₂	0.010-0.060%
Na,O	0.15-0.30%	Fe ₂ O ₃	0.060-0.120%
K,O	0.15-0.35%	Al ₂ O ₃	24.0-27.0%
P,O;	0.15-0.35%	SiO ₂	64.0-68.0%

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability:	Material is non-combustible.
Means of Extinction:	Not Applicable.
Special Fire Fighting Procedures:	Not Applicable.

SECTION 5 - REACTIVITY DATA

Chemical Stability:	Material is stable.
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Incompatibility with Other Substances:

Not Applicable.

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