

## MATERIAL SAFETY DATA SHEET

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SECTION 1 – PRODUCT IDENTIFICATION AND USE							
PRODUCT Calcium Nitrate   IDENTIFIER:							
	tilizer						
SUPPLIER'S NAME:		ol Manufactu	ring Inc				
SUITERS MANE.	Agiist		ing ne				
<b>ADDRESS</b> 220 – 7565, 132	Street			AD	<b>DRESS</b> Same as manufac	cturer	
Surrey, BC,							
V3Z 1K7, Canada							
IN CASE OF EMERGENCY	Z: 1(866	5) 246-3378					
	S	FCTION 2	- HAZAI		US INGREDIENTS		
					LD <sub>50</sub> OF INGREDIEN	Т	
HAZARDOUS INGREDIENTS		Conc. in CAS		#	(SPECIFY SPECIES & RO		
		%					
Calcium Nitrate		100	10124-3	37-5	LD <sub>50</sub> (oral rat) 2000 mg/	LD <sub>50</sub> (oral rat) 2000 mg/Kg	
		CE CE					
SECTION 3 – PHYSICAL DATA							
PHYSICAL STATE:	Solid			OD	OUR & APPEARANCE	Odourless white to off-white	
ODOUR THRESHOLD	NAP			VAPOUR PRESSURE		powder or crystals.	
(ppm):	INAF	INAL			nHg): @20oC	INAF	
VAPOUR DENSITY (air=1):	NAP	NAP			LATIVE DENSITY	1.12	
					DoC		
pH:		6.0 (5% Aqueous Solution)			<b>APORATION RATE:</b>	NAP	
MELTING/FREEZING	116	116			LUBILITY (in water):	76% by weight. Hygroscopic.	
POINT (°C)	D					1000 1200 ha /m2 (62.42	
BOILING RANGE	Decor	Decomposes above 116 °C.		BU.	LK DENSITY:	1000 – 1200 kg/m3 (62.42- 74.91 Ib/cf <sup>3</sup> )	
SECTION 4 – FIRE AND EXPLOSION DATA							
SECTION 4 – FIKE AND EAFLOSION DATA							
FLAMMABLE: Product is 1	not com	bustible.					
IF YES, UNDER WHAT			not combu	stible	; however, contact with cor	mbustible material may cause	
<b>CONDITIONS?</b> fire.							
MEANS OF EXTINCTION: Use media appropriate for surrounding fire and/or materials.							
FLASHPOINT (°C) &	NLAN	NAV AUTOIGNITION NAP					
METHOD:	INA	NAV			<b>TEMPERATURE (°C)</b>	INAP	
LOWER FLAMMABLE	NAF	NAP			JPPER FLAMMABLE	NAP	
LIMIT (% by volume):					LIMIT (% by volume):		
SENSITIVITY TO IMPACT:		NAV-Not expected to be sensitive to mechanical impact.			SENSITIVITY TO STATI DISCHARGE:	C NAV-Not expected to be sensitive to static discharge.	
HAZARDOUS COMBUSTI							
<b>PRODUCTS:</b> nitrogen and calcium.							
SECTION 5 – REACTIVITY DATA							
CHEMICAL STABILITY: Stable under normal conditions.							
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INCOMPATIBILITY:	Strong oxidizers		le materials. C		CORROSIVE BEHAVIOUR:	-		
REACTIVITY AND UNDER WHAT CONDITIONS:			Keep away from: heat sources, combustible material, reducing agents, organic material.					
HAZARDOUS DECOMI PRODUCTS:		Thermal decomposition products are toxic and may include ammonia, oxides of nitrogen and calcium.						
SECTION 6 – TOXICOLOGICAL PROPERTIES								
ROUTES OF ENTRY:								
SKIN CONTACT: Yes	SKIN ABSORPTION:	NotEYlikelyCO	YE ONTACT:	Yes	INHALATION: Y	es <b>INGESTION</b> : Yes		
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:								
<b>INGESTION:</b> May cause mild gastrointestinal discomfort. High level ingestion may cause abdominal cramps, bloody stool, nausea and vomiting, convulsions and collapse.								
<b>INHALATION:</b> Mildly irritating to nose, throat and respiratory tract & may cause coughing and sneezing. Excessive contact may cause drying of mucous membranes of nose & throat due to absorption of moisture and oil.								
<b>EYE CONTACT:</b> May cause irritation, redness and possible damage due to abrasiveness. Excessive contact may cause drying of mucous membranes of eye due to absorption of moisture and oils.								
SKIN CONTACT: Not	ikely to be absorbed th	brough the s	kin					
EFFECTS OF CHRONIC	•	2		ass (IAI	RC FC TI V MAK	)		
			tagenicity clas			)		
			toxic to reprod					
EXPOSURE STANDARI	DS: <u>ACGIH</u>				OSHA			
	10mg/m <sup>3</sup> -Inh	alable partic	culate		50 mppcf or 15 mg	<sup>/</sup> m <sup>3</sup> Total dust		
	$3 \text{ mg/m}^3$ - res	pirable parti	culate		5mppcf or 5 mg/m <sup>3</sup>	respirable fraction		
CARCINOGENICITY:	Ingredients are not		MUTAGENICITY:		No adverse mutagenic effects are anticipated.			
<b>REPRODUCTIVE</b> No adverse <b>HAZARD:</b> reproductive effanticipated.		ts are <b>TE</b>	TERATOGENICITY:		No adverse effects are anticipated			
IRRITANCY:	IRRITANCY: Yes		SENSITIZATION:		Yes			
SYNERGISTIC MATERIALS:It contains a nitrate which may react with amines to form a nitrosamine. Some nitrosamines have been shown to be carcinogenic in lab. Animals.								
SECTION 7 – PREVENTIVE MEASURES								
<b>PERSONAL PROTECTIVE</b> EQUIPMENT: <b>Gloves and Eye Protection</b> : Wear neoprene rubber or butyl gloves. Wear chemical safety goggles and face shield if splashing may occur.								
Foot Wear: Impervious safety boots.								
<b>Clothing's</b> : wear coveralls with an impervious apron to protect street clothing. <b>Respiratory protection:</b> Use NIOSH/MSHA approved dust mask. Use an air- supplied respirator if concentrations are higher.								

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ENGINEERING CONTROLS:	General exhaust is acceptable. Local exhaust ventilated is preferred. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Ventilate low lying areas such as sumps or pits where dense dust my collect. Observe all warnings and precautions listed for the product.				
	-Observe normal hygiene standards				
	- Avoiding raising dust				
HANDLING PROCEDURES:	-Do not discharge the waste into the drain				
	-Remove contaminated clothing immediately				
	-Clean contaminated clothing				
STORAGE REQUIREMENTS:	-Keep container tightly closed. Keep out of direct sunlight. Store in a dry and well ventilated area. Keep away from heat source, combustible materials, reducing agents, organic materials. Storage temperature: 15/20 °C.				
LEAK AND SPILL PROCEDURE:	Minimize air borne spreading of dust. Wet sweeping or vacuuming is preferred. Don't used compressed air to clean surface. Return all material to container for disposal. Do not allow material to to watercourses or sewers.				
WASTE DISPOSAL:	Dispose in compliance with government requirements and local disposal regulations. Do not dispose of waste with normal garbage, or to sewer system.				
SECTION 8 – FIRST AID MEASURES					
INHALATION:	Remove the victim into fresh air. Give artificial respiration <b>only</b> if breathing has stopped. Give cardiopulmonary resuscitation (CPR). Obtain medical attention immediately.				
SKIN CONTACT:	Rinse affected area with water and soap, remove the victim's contaminated clothing. Obtain medical attention if irritation persists.				
EYE CONTACT:	Flush eyes thoroughly for a minimum of 15 minutes. Obtain medical attention if irritation persists.				
INGESTION:	Do not attempt to give anything by mouth to unconscious victim. If victim is alert and not convulsing, rinse mouth and give water to dilute material. In case of spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits. Obtain medical attention.				
SECTION 9 – DEPARTMENT OF TRANSPORTATION					
SHIPPING INFORMATION					
US and Canada: Not regulated					
International Shipping: Not regulated					
TDG: Not regulated.					
IATA: Not regulated					

## **SECTION 10 – PREPARATION DATE OF MSDS**

PREPARED BY: Agrisol Manufacturing Inc.	ADDITIONAL INFORMATION:			
220 – 7565, 132 Street	At the time of preparation, the information and data contained in			
Surrey, BC,	this MSDS are believed to be accurate and have been compiled			
V3Z 1K7, Canada	from sources that are believed to be reliable.			
BUSINESS NUMBER: 604-805-2417				
DATE: October, 2015				