MATERIAL SAFETY DATA SHEET

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TIGER 50CR Sulphur

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SECTION I GENERAL INFORMATION

Tiger-Sul Products (Canada) Co. 6444 -42 St. S.E. Calgary, AB T2C 2V1 CANADA Telephone: (403) 279-2616 Fax: (403) 236-9049 Tiger-Sul Products, LLC Post Office Box 5 Atmore, AL 36502 USA Telephone: (251) 368-2560 Fax: (251) 368-4964

Trade Name (Common Name or Synonym) - Sulphur (Fertilizer (TIGER 50CR)Formula:40% Sulphur/BentoniteMolecular Weight:N/A60% Ammonium Sulphate

SECTION II TRANSPORTATION REQUIREMENTS (Non Regulated as per following exemptions/provisions, and observations):

<u>US and Canadian Shipments:</u> non regulated as per schedule 2 section 33(b) Exemption for sulphur.

International Shipments:

AIR (IATA): Exempted under Special Provision A 105 Sulphur Observations Part 1 & 2

Appearance: Specifically formed product in the shape of pastilles, mixed with round off white prills.

TRANSPORTATION EMERGENCIES:

FOR SHIPMENTS COMING FROM	FOR SHIPMENTS COMING FROM
CALGARY, AB - CANADA	ATMORE, AL - USA
Call collect	Call collect
(403) 279-2616 (8am – 4pm, Mon. – Fri.)	(251) 368-2560 (8am – 4pm, Mon. – Fri.)
CANUTEC 613-996-6666 (24 hours).	Chemtrec 800-424-9300 (24 hours)

WHMIS: non-controlled product in accordance with sub-paragraph 13(a)(i - iv) or paragraph 14(a) of the Hazardous Products Act.

SECTION III FIRST AID MEASURES

Skin: Wash with mild soap and water.

Eyes: Irrigate thoroughly with copious quantities of plain water.

Inadequate irrigation may cause irritation. Do not use Boric Acid.

Ingestion: If swallowed, induce vomiting only if victim is conscious. DO NOT attempt to give anything by mouth to an unconscious person.

TIGER 50CR Sulphur MSDS

SECTION IV HAZARDS INFORMATION

Inhalation: Sulphur dust may irritate the mucous membranes of the respiratory passage

Ingestion: Minimal toxicity. Irritating to mouth, throat and stomach. May cause digestive tract disorder/damage.

Skin: Frequent or prolonged contact may irritate the skin. Low toxicity.

Eyes: Sulphur dust is capable of irritating the inner surfaces of the eyelids.

Permissible Concentration: None established.

Unusual Chronic Toxicity: N/A

Flash Point °C	Auto Ignition °C	Flammable Limits in Air (% by VOL)
Pure Liquid S	Dust clouds 190 °C,	Minimum explosion concentration is approximately 35 gm per cu. Metre
188 °C, (370 °F)	(374 °F)	(0.035 oz per cu. ft.). Maximum
Impure Liquid S	Undispersed dust	explosive concentration lies between 1000-2000 (probably about 1400 gm/m ³
168 °C, (335 °F)	220 °C, (428 °F)	(1.4 oz per cu. ft.).
Closed cup	Open cup <u>X</u>	

Occupational Exposure Limit: ACGIH Recommends - for nuisance dust, 10mg/m³ (total dust).

*Unusual Fire and Explosion Hazards:

Dust suspended in air is readily ignited by flame, static electricity of friction spark. Every reasonable step must be taken to minimize dust formation. Dust tight casings should be equipped with explosion relief vents. Sparkless electrical equipment is recommended. Handling equipment must be grounded or bonded to avoid static electricity. Keep away from sources of flame or sparks. Detailed recommendations in Manufacturing Chemists Association SD-74 and National Safety Council 612 Bulletins covering "Sulphur" should be followed when handling Tiger 60.

Explosive Limits:	LEL 35 gm/m ³
	UEL 1400 gm/m ³

SECTION V PRECAUTIONS/PROCEDURES

* Fire Extinguishing Agents Recommended:

- 1. A fine water spray or fog is recommended.
- 2. CO_2 or dry chemical.
- 3. Small fires may be smothered with sand or solid sulphur.

* Fire Extinguishing Agents to Avoid:

Hoses and extinguishers with pressure streams should be avoided where solid sulphur is dusty or where it may create a further hazard by raising more dust clouds.

* Special Fire Fighting Precautions:

Because burning sulphur evolves sulphur dioxide, breathing apparatus or gas masks approved for use in acid-gas atmosphere should be used. Fumes from unprotected sulphur fires shall be avoided, if possible, by approaching for the upwind side.

* Ventilation:

Local exhaust if dusty conditions prevail.

* Normal Handling:

Avoid breathing dust and keep clothing as free from dust as possible.

* Storage:

Solid becomes corrosive to metals when stored wet. Sulphur/bentonite fertilizer will physically break down when exposed to moisture or water.

* Spill or Leak:

Shovel into disposal containers or cover with tarp. For landfill disposal, mix with limestone 3 times the weight of sulphur.

* Special: Precautions/Procedures/Label Instructions.

Eye wash equipment near the work area.

SECTION VI PERSONAL PROTECTIVE EQUIPMENT

* Respiratory Protection:

Dust-type respirators shall be provided for dusty conditions. Breathing apparatus must be available for emergency use in case of fire.

* Eyes and Face:

Dust-tight goggles with plastic or rubber frames may be helpful in dusty conditions.

* Hands, Arms and Body:

Workers whose skin may be sensitive to sulphur dust should button collars, roll sleeves down, and gather trousers at the ankle. Gloves may be helpful.

* Other Clothing and Equipment:

Hard hat and safety shoes. Fire-retardant fabric is recommended. Sulphur impregnated clothing should not be worn.

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SECTION VII PHYSICAL DATA

Material is (at normal conditions):		Appearance and Odour
Liquid <u>X</u> SolidGas prill.		Mixture of white and pale green
prin.		(pellet or pastille in shape).
Boiling Point	Specific Gravity	Vapour Density
444 °C (832 °F)	Solid, 2.07 gm/ml	> 1
Solubility in Water (% by weight)	рН	Vapour Pressure (mm Hg at 20 °C)
45% at 0° C (Ammonium Sulphate) Neutral when dry		Solid: Less than 0.0001 mm. Hg at 20 °C (68 °F).
Evaporation Rate (Butyl Acetate =) (Ether =)	% Volatiles by Volume	Melting Point
(Ether =) N/A	N/A	119 °C (246 °F)

REACTIVITY DATA SECTION VIII

Conditions to Avoid Stability __Unstable X_Stable The main hazards are fire and dust explosions.

Hazardous Polymerization Conditions to Avoid. May occur

X Will not occur.

SECTION IX HAZARDOUS INGREDIENTS (Mixtures Only)

* Material or Components:

Mixtures with chlorates, nitrates or other oxidizing agents may be explosive. Sulphur will react with alkalis or alkaline earths.

NOTICE:

The data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and believed to be accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification.



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