MATERIAL SAFETY DATA SHEET

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/Bentonite  
60% Ammonium Sulphate  
Molecular Weight:  N/A

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

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

International Shipments:

AIR (IATA):  Exempted under Special Provision A 105  
SEA(IMDG):  Exempted as per sulphur Observations Part 1 & 2

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

TRANSPORTATION EMERGENCIES:

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<tr>
<td>CALGARY, AB - CANADA</td>
<td>ATMORE, AL - USA</td>
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<td>Call collect</td>
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<td>(403) 279-2616 (8am – 4pm, Mon. – Fri.)</td>
<td>(251) 368-2560 (8am – 4pm, Mon. – Fri.)</td>
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<tr>
<td>CANUTEC 613-996-6666 (24 hours).</td>
<td>Chemtrec 800-424-9300 (24 hours)</td>
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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.
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
188 °C, (370 °F) (374 °F) approximately 35 gm per cu. Metre
Impure Liquid S Undispersed dust explosive concentration lies between
168 °C, (335 °F) 220 °C, (428 °F) 1000-2000 (probably about 1400 gm/m³
168 °C, (335 °F) 220 °C, (428 °F) (1.4 oz per cu. ft.).

Closed cup _____  Open cup  X

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/m³
UEL  1400 gm/m³

SECTION V  PRECAUTIONS/PROCEDURES

* Fire Extinguishing Agents Recommended:
1. A fine water spray or fog is recommended.
2. CO₂ 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.
SECTION VII  PHYSICAL DATA

Material is (at normal conditions):  Appearance and Odour

__Liquid  X Solid  __Gas  Mixture of white and pale green
prill. (pellet or pastille in shape).

Boiling Point  Specific Gravity  Vapour Density

444 °C (832 °F)  Solid, 2.07 gm/ml  > 1

Solubility in Water  pH  Vapour Pressure
(% by weight)  Neutral when dry  (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  % Volatiles by Volume  Melting Point
(Butyl Acetate =)  (Ether =)

N/A  N/A  119 °C (246 °F)

SECTION VIII  REACTIVITY DATA

Stability  Conditions to Avoid
__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.