

Material Safety Data Sheet

AgriSolutions Sulfur 90%

Section 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AgriSolutions Sulfur 90%

TRADE NAMES: None

SYNONYMS: Sulfur and clay mixture

CHEMICAL FAMILY: Mixture

MSDS CREATION DATE: January, 2001

MSDS CURRENT REVISION DATE: 9-28-09

DISTRIBUTED BY: Winfield Solutions, LLC, PO Box 64589, St. Paul, Minnesota 55164-0589

EMERGENCY: CHEMTREC (24 Hour Emergency Response) 1-800-424-9300

MEDICAL EMERGENCY: 877-424-7452

Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% wt
Sulfur	7704-34-9	90
Bentonite Clay (non-hazardous)	1302-78-9	10

Section 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A yellowish tablet shaped solid (pastille). Normally non-hazardous. Dusts, if generated, may irritate the nose and throat. Concentrated dusts may produce a dust explosion if confined and a source of ignition is present.
NFPA Rating: Health = 1, Fire = 0, Reactivity = 0 (as shipped) Health = 2, Fire = 1, Reactivity = 0 (if crushed into small particles)

POTENTIAL HEALTH EFFECTS: (As shipped, the product is considered non-hazardous. However, product dusts, if generated may present a hazard.)

INHALATION: Product dusts, if generated, may cause irritation of the nose and throat. Asthmatics may be sensitive to sulfur dusts and should avoid exposures.

SKIN CONTACT: Prolonged contact with product dusts may cause irritation.

EYE CONTACT: Exposure to product dusts may cause irritation.

INGESTION: Not a likely route of entry. Sulfur is not considered toxic under foreseeable exposure patterns.

LONG-TERM AND/OR DELAYED EFFECTS: Asthmatics can experience the onset of reactions if sensitized to sulfur dusts.

CARCINOGEN STATUS:

OSHA: Not listed **NTP:** Not listed **IARC:** Not listed

Section 4 – FIRST AID MEASURES

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention for irritation or any other symptom.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area with soap and water. Get medical assistance if irritation develops.

EYE CONTACT: Flush eyes immediately with running water. Get medical attention for irritation.

INGESTION: Get medical attention.

NOTE TO PHYSICIAN: Although low in toxicity, reactions can result from significant exposures. Some asthmatics may develop sensitization to sulfur and should be treated symptomatically.

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Section 5 – FIRE-FIGHTING MEASURES

FLASH POINT: 405° F (sulfur)

AUTOIGNITION TEMPERATURE: 450° F (sulfur)

FIRE AND EXPLOSION HAZARD: Product may be ignited by friction, high temperatures or by flame. Product dusts if dispersed in significant concentration (35 gm/m³) may present a dust explosion hazard.

EXTINGUISHING MEDIA: Use any standard agent but avoid pressure streams that may disperse product or its dusts.

FIREFIGHTING: Wear appropriate self-contained positive pressure breathing apparatus. Dike area to prevent runoff and contamination of water sources.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may include toxic and hazardous oxides of sulfur.

Section 6 – ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL: Pick-up dry spills by scooping, shoveling or vacuuming and place into containers for reuse or disposal. Wear appropriate protective clothing. See section 8.

Section 7 – HANDLING AND STORAGE

STORAGE: Store in a cool, dry place. Protect from physical damage, contamination with any other chemicals and from exposure to high temperatures or flames.

NORMAL HANDLING: Do not breath product dusts. Wash thoroughly after handling.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

INGREDIENT	OSHA PEL	ACGIH TLV	Other values
No ingredients listed in this section	-----	-----	-----

* = ACGIH Biological Exposure Value ** = AIHA Workplace Environmental Exposure Level

VENTILATION: Use of local exhaust is recommended where dusty conditions exist.

EYE PROTECTION: Use of safety glasses is considered good standard practice. Goggles are recommended for dusty conditions.

CLOTHING: Wear trousers and long sleeved shirt to avoid prolonged skin contact

GLOVES: Wear cotton or canvas protective gloves to prevent prolonged contact with this product.

RESPIRATOR: For dusty conditions, use any NIOSH approved air-purifying dust respirator is recommended.

EMERGENCY WASH FACILITIES: Where there is the potential that an employee's eyes and/or skin may be exposed to product dusts, the employer should provide an eye wash fountain and safety shower or another source of running water within the immediate work area.

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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: Yellow tablet shaped solid (pastille). Odorless to slight sulfur odor unless crushed. Dusts have characteristic sulfur odor.
MOLECULAR FORMULA: Mixture
MOLECULAR WEIGHT: Mixture
pH: None as dry solid
MELTING POINT: 832°F (444°C) for sulfur
BOILING POINT: Not determined
VAPOR PRESSURE: Negligible
VAPOR DENSITY: Not applicable
WATER SOLUBILITY: Insoluble
SOLVENT SOLUBILITY: Not determined
SPECIFIC GRAVITY: 2.07

Section 10 – STABILITY AND REACTIVITY

REACTIVITY: Stable under normal temperatures and pressures.
CONDITIONS TO AVOID: Avoid contact with acids, alkalies, strong oxidizers and/or excessive heat.
INCOMPATIBILITIES: Avoid contact with acids, alkalies and strong oxidizers. Contact with some alkalies and strong oxidizers may result in an explosion hazard. (Sulfur is an ingredient in gunpowder.)
HAZARDOUS DECOMPOSITION: Thermal decomposition products may include toxic and hazardous oxides of sulfur.
POLYMERIZATION: Will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

Toxicological information listed below is for Sulfur.

ACUTE TOXICITY:
LD₅₀: > 8,437 mg/kg, oral, rat
DELAYED/CHRONIC:
CARCINOGEN STATUS: Data not available.
CHRONIC EXPOSURE: Asthmatics may become sensitized to sulfur.

Section 12 – ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY:
TLm mosquito fish 10,000 ppm/96 hr (fresh water) /Conditions of bioassay not specified
DEGRADABILITY: No data available
LOG BIOCONCENTRATION FACTOR (BCF): No data available
LOG OCTANOL/WATER PARTITION COEFFICIENT: No data available

Section 13 – DISPOSAL CONSIDERATIONS

Product (as shipped) is not a RCRA hazardous waste if discarded. Observe all federal, state and local regulations when disposing of this product.

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Section 14 - TRANSPORT INFORMATION

This product is not regulated in surface transportation. Sulfur, when formed into solid shapes is exempted from DOT regulations under 49CFR172.101(30) and from Canadian TDG regulations under TDGAR exemption part 2.3(a) (xxxviii).

Section 15 – REGULATORY INFORMATION

TSCA STATUS: All ingredients are listed on the TSCA Inventory of Chemical Substances.

OTHER TSCA ISSUES: None

SARA 311 CLASSIFICATION: Acute hazard. (based on the generation of dusts.)

SARA 313 NOTIFICATION: There are no ingredients on the SARA 313 reporting list.

CERCLA RQs and TPQs: No ingredients have RQs or TPQs.

CALIFORNIA PROPOSITION 65: No ingredients found on the Propositions 65 list.

CANADIAN INVENTORY: All ingredients are listed on the Canadian Domestic Substances List.

WHMIS: This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. Classification: Not a controlled product (as shipped).

Section 16 – ADDITIONAL INFORMATION

CHANGES FROM PREVIOUS VERSION: Name revised 9-28-09

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.