

Material Safety Data Sheet

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300

Section 1 – Chemical Product and Company Identification

Product Name: **Sul-Preme 52**

EPA Reg. No. 1381-220

Common Name: 52% Emulsified Sulfur

Chemical Description: Emulsified Sulfur

Manufacturer's Name:

WINFIELD SOLUTIONS, LLC

PO Box 64589

St. Paul, MN 55164-0589

Date Prepared: 1/30/97

Emergency Telephone Number:

CHEMTREC 1-800-424-9300

For Medical Emergency Call 1-877-424-7452

Revision Date: 02-15-08

Section 2 – Composition Information on Ingredients

Derived from: Emulsified Sulfur.

Ingredient	%	TLV or PEL
Sulfur (S)	52.0	N/A

Section 3 – Hazards Identification

Emergency Overview: This product may produce toxic Hydrogen Sulfide gas, which may collect in low areas and in the head spaces of tanks and containers. Product may cause oxygen deficiency in enclosed spaces, follow all OSHA regulations pertaining to enclosed space entry.

CAUTION: Keep out of reach of children.

Route(s) of Entry: Eyes, Inhalation, Skin and Ingestion

Health Hazards (*Acute and Chronic*):

Inhalation: Inhalation of mist may cause irritation of the mucous membranes of the respiratory tract.

Eyes: May cause irritation of the eyes.

Skin: Prolonged or repeated exposure may cause skin irritation.

Ingestion: May be harmful if swallowed.

Carcinogenicity NTP: Not Listed IARC: Not Listed OSHA: Not Listed

Medical Conditions Generally Aggravated by Exposure:

None known.

Section 4 – First Aid Measures

Inhalation: Remove person to fresh air and support breathing as needed. Seek medical attention if irritation persists.

Ingestion: Induce vomiting in a conscious person. Seek medical attention if irritation persists.

Eyes: Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists.

Skin: Wash the affected area with soap and water. Seek medical attention if skin becomes irritated.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 – Fire and Explosion Hazard Data

Flash Point: **Flammable Limits:** **LEL:** **UEL:**

405 ° F	35 g/M ³	1400 g/M ³
Extinguishing Media: Water. Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Smoke and fumes from fire may contain hazardous components. Hazardous Combustion Products: Toxic gases such as SO ₄ may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well. Unusual Fire and Explosion Hazards: If heated to the extent that all water is evaporated, the sulfur combust and emit toxic fumes. Stay upwind of fire. If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination to water supplies.		

Section 6 – Accidental Release Measures

Small Spills: Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

Large Spills: Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

Containment: Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

Section 7 – Precautions for Safe Handling and Use

Precautions to Be taken in Handling and Storing: This product may produce Hydrogen Sulfide Gas which may collect in low areas and in the head space of tanks and containers. Store in cool, dry places away from children, feed and food products. Immediately clean up spills that occur during handling or storage. Protect from freezing.

Other Precautions: Consult local, State and Federal regulations pertaining to storage and disposal.

Section 8 – Control Measures / Personal Protection

Respiratory Protection (*Specify Type*): Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/HIOSH-approved respirator.

Ventilation: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

NOTE: Prevent exposure to head space of containers. Poisonous hydrogen sulfide gas may accumulate in head spaces of tanks and containers.

Protective Gloves: Wear rubber or impervious gloves

Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing or Equipment: Wear appropriate clothing to prevent prolonged or repeated skin contact.

Work / Hygienic Practices: Never eat, drink or smoke in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet or applying cosmetics.

Section 9 – Physical / Chemical Characteristics

Physical State:	Liquid	Specific Gravity (H₂O=1)	1.38
Vapor Pressure (mm Hg.)	17.53 mm Hg @ 20 ° C	Freezing Point	32 ° F
Vapor Density (AIR=1)	N/A	Boiling Point	212 ° F
Solubility in Water: Negligible.			
Appearance and Odor: Pale yellow thick liquid with a slight sulfurous odor (rotten eggs).			

Section 10 – Reactivity Data

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions.

Chemical Incompatibilities: Oxidizers, turpines.

Conditions to avoid: Avoid excessive heat.

Hazardous Decomposition Products: This product may produce Hydrogen Sulfide gas, which may collect in low areas and in the head space of containers and tanks. When heated, sulfur emits highly toxic fumes of SO_x. Other toxic chemicals may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Eye Effects: May cause irritation

Chronic Effects: No unusual chronic effects

Skin Effects: May cause irritation

Carcinogenicity: Not listed as carcinogenic

Acute Inhalation Effects: Not Determined

Mutagenicity: Not listed as mutagenic

Acute Oral Effects: Not Determined

Teratogenicity: Unknown

Section 12 – Ecological Information

Soil Absorption / Mobility: Moderately mobile in soil profile.

Section 13 – Disposal Considerations

Disposal: Dispose of in an approved landfill or apply at recommended label rates.

Disposal Regulatory Requirement: Follow applicable Federal, State and local regulations.

Section 14 – Transport Information

Not regulated by the DOT as a hazardous material.

Section 15 – Regulatory Information

SARA TITLE II HAZARD CATEGORY:

Immediate: **Yes**

Delayed: **No**

Sudden Release of Pressure: **No**

Fire: **No**

Reactive: **No**

CERCLA: None Listed.

SARA, TITLE III, SECTION 313: None Listed.

PROPOSITION 65: WARNING: Not Listed.

Section 16 – Other

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