



# Material Safety Data Sheet

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

<b>Section 1—Chemical Product and Company Identification</b>	
Product Name:	Atmos™
Common Name:	Adjuvant
Chemical Description:	Methylated Soybean Oil, High Fructose Corn Syrup, and Sorbitan Fatty Acid Esters and their derivations
Manufacturer's Name: <b>WINFIELD SOLUTIONS, LLC</b> P. O. Box 64589 St. Paul, MN 55164-0589	Medical Emergency Telephone Number: <b>1-877-424-7452</b> MSDS Creation Date: 08/14/2012

<b>Section 2—Hazards Identification</b>
<b>Emergency Overview:</b> Product may cause oxygen deficiency in enclosed spaces; follow all OSHA regulations pertaining to confined space entry. See health effects below.
<b>CAUTION: Keep out of reach of children.</b>
<b>Route(s) of Entry:</b> Eyes, Inhalation, and Ingestion.
<b>Health Hazards (Acute and Chronic):</b>
<b>Inhalation:</b> Inhalation of mist may cause irritation of the upper respiratory tract.
<b>Eyes:</b> Irritation of eyes.
<b>Skin:</b> Systematically toxic concentrations of this product are unlikely to be absorbed through human skin.
<b>Ingestion:</b> Harmful if swallowed.
<b>Medical Conditions Generally Aggravated by Exposure:</b>
None known. Preexisting respiratory conditions may be aggravated by exposure to mists.

<b>Section 3—Composition Information on Ingredients</b>		
<b>Ingredient</b>	<b>% (wt)</b>	<b>CAS reg. #</b>
Methylated Soybean Oil	48.0 – 52.0%	67784-80-9
High Fructose Corn Syrup	15.0 – 20.0%	977042-84-4
Sorbitan Fatty Acid Esters and their derivation	20.0 – 25.0%	

\*Ingredients not specifically listed are non-hazardous and are claimed as confidential business information.

<b>NFPA HAZARD RATING:</b>			
0	Least		
1	Slight	1	Health
2	Moderate	1	Flammability
3	High	0	Reactivity
4	Severe		

<b>Section 4—First Aid Measures</b>	
<b>Inhalation:</b>	Remove person to fresh air and assist breathing as needed. Seek medical attention if irritation persists.
<b>Ingestion:</b>	Seek medical attention or call a poison control center immediately.
<b>Eyes:</b>	Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists.
<b>Skin:</b>	Remove contaminated clothing and wash before re-using. Flush skin with water, and then wash 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**

**Extinguishing Media:** Carbon dioxide, foam, dry chemical, halogenated agents.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components. Water spray may be used to cool containers, but a water stream may spread flames. Use fog nozzles if water is used. Contain run-off by diking to prevent contamination of water supplies.

**Hazardous Combustion Products:** Toxic gases may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

**Unusual Fire and Explosion Hazards:** None known.

### **Section 6—Accidental Release Measures**

**Small Spills:** Clean-up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Spills should be cleaned up immediately to prevent spreading. If spilled, this material and its mixtures with water present a slip hazard. Use extra care in cleaning up spill areas to prevent injury.

**Large Spills:** Clean-up personnel should protect against mist inhalation and skin contact. Avoid generating mist. Spills should be cleaned up immediately to prevent spreading. If spilled, this material and its mixtures with water present a slip hazard. Use extra care in cleaning up spill areas to prevent injury.

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

### **Section 7—Precautions for Safe Handling and Use**

**Precautions to Be Taken in Handling and Storage:** Store in cool, dry areas away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage. Protect from freezing. Keep containers closed when not in use. Do not store in aluminum or metal vessels.

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

### **Section 8—Control Measures/Personal Protection**

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a properly FIT TESTED MSHA/NIOSH-approved respirator for organic vapors.

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

**Protective Gloves:** Wear chemically protective gloves.

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices.

**Other Protective Clothing or Equipment:** Wear chemically protective boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

**Work/Hygienic Practices:** Never eat, drink, nor 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**

<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.01
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Freezing Point:</b>	Not determined
<b>Vapor Density (Air=1):</b>	Not determined	<b>Boiling Point:</b>	>212°F (100°F)
<b>Solubility in Water (wt %):</b>	Dispersible	<b>pH (1% in distilled water):</b>	6.18
<b>Appearance and odor:</b>	Orange or dark amber liquid with no odor	<b>Flash Point:</b>	> 201°F (94°C)

### **Section 10—Reactivity Data**

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

**Chemical Incompatibilities:** Oxidizing agents.

**Conditions to Avoid:** Avoid excessive heat.

**Hazardous Decomposition Products:** Combustion products: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, phosphorous oxides.

**Hazardous Polymerization:** Will not occur.

### **Section 11—Toxicological Information**

**Eye Effects:** Minimally irritating  
**Skin Effects:** May cause irritation; Acute Dermal LD50 >5,050 mg/kg (rats); non-sensitizer  
**Acute Inhalation Effects:** LC50 >2.32 mg/L (rats)  
**Acute Oral Effects:** LD50 >5,000 mg/kg (rats)  
**Chronic Effects:** Not determined  
**Mutagenicity:** Not determined  
**Teratogenicity:** Not determined

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

### **Section 12—Ecological Information**

**Soil Absorption/Mobility:** Mobile in soil profile.  
**Aquatic Toxicity:** Rainbow Trout – NOEC 15 mg/L; 96 hr LC50 = 21.71 mg/L  
Bluegill – NOEC >100 mg/L  
Daphnia – NOEC 12.5 mg/L; EC50 = 26.83 mg/L (48 hr static test)  
\*NOEC = No Observed Effect Concentration

### **Section 13—Disposal Considerations**

**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.  
**Container:** Triple rinse (or equivalent) the empty containers. Then offer for recycling or reconditioning.  
**RCRA characteristics:** None

### **Section 14—Transport Information**

Not regulated by the U.S. DOT as a hazardous material.

### **Section 15—Regulatory Information**

**TSCA Inventory:** Not determined  
**SARA Title III, Section 302:** None listed

<b>SARA Title III, Section 311/312:</b>	Immediate: <b>Yes</b>	Delayed: <b>No</b>
Sudden Release of Pressure: <b>No</b>	Fire: <b>No</b>	Reactive: <b>No</b>

**SARA Title III, Section 313:** None listed  
**CERCLA:** None listed

**PROPOSITION 65: WARNING:** This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

### **Section 16—Other**

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