

Section 1: Company and Product Identification

Product Name:	FREE FLOW	General Product Description:
Product Code:	AC-FFIBC	
Manufactured For:	Agrilead, Inc. 441 E. Lucas Street Russell, KS 67665 PH: 785-483-5000	FREE FLOW is a seed treatment additive designed to enhance coverage & retention of applied treatments as well as improve post-treatment seed flow-ability and handling characteristics.
Emergency Response:	INFOTRAC 800-535-5053	

Section 2: Hazards Identification

Hazard Pictograms:



Signal Word: Warning
Hazard Category: Carcinogenicity Cat 2
Hazard Statements: Suspected of causing cancer

Precautionary Statements: Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection
 IF exposed or concerned: Get medical advice/attention
 Store locked up
 Dispose of contents/container in accordance with local/regional/national/international

Hazards not otherwise classified: Not applicable, none known.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	CAS#	Hazard Category	%
vinyl acetate	108-05-4	Flam Liq 2, Acute Tox 4 (inh), STOT SE 3 (resp irrit), Carc 2	<1

Section 4: First Aid Measures

General Info: In general, product does not have any acute hazard characteristics. Treat exposures symptomatically as needed.

Notable Exposure symptoms: No notable exposure symptoms.

If ingested: Do not induce vomiting. Drink plenty of water. Seek medical advice.

If inhaled: Remove to fresh air. If symptoms develop, consult medical advice.

Eye contact: Immediately flush eyes with plenty of water. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: Rinse with soap and water thoroughly. Get medical advice if irritation develops or persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

Section 5: Fire Fighting Measures

General Info: Product is not expected to pose a fire / combustion hazard. If involved in fire, direct water spray may spread fire. Isolate any uncompromised product from area if possible. Do not breath fumes.

Extinguishing Method / Equipment: Carbon dioxide (CO2), dry chemical, foam. Firefighters should wear self-contained breathing apparatus (SCBA) and full protective equipment.

Hazardous Decomposition Info: Constituents associated with burning should be considered as toxic.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing vapors. Ventilate area if easy to do so. For personal protection, see section 8 of the SDS.

Containment Equipment and Procedures:
Large Spills: Contain actively spilling material if safe and easy to do so. Dike the spilled material, where this is possible. Utilize absorbent clay or sand to contain and stop spreading material.
Small Spills: Utilize absorbent clay or sand and transfer to waste receptacles.

Cleanup Procedures: Collect all contaminated clay, media, or other cleanup materials into a waste receptacle.

Section 7: Handling and Storage

Safe Handling Precautions: Ensure adequate ventilation. Avoid breathing vapors/mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.

Recommendations for Storage: Store in cool area in product container.

Incompatibilities: Store away from strong acids or oxidizing agents. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

General / Engineering Controls: Local exhaust ventilation should be utilized to control vapors / substances below exposure limits.

Work Clothing: Protective work clothing which covers skin and prevents exposures.

Eye/face protection: Wear safety goggles or face shield if splash hazards are present.

Skin Protection: Wear chemical resistant gloves. Butyl gloves recommended for vinyl acetate exposure prevention.

Respiratory Protection: Utilize organic vapor respirator if airborne levels are not maintained below exposure limits, or if ventilation is inadequate.

Additional Information: Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

Substances with Exposure Limits	CAS#	ACGIH-TLV	ACGIH-STEL	OSHA-PEL	NIOSH-REL
vinyl acetate	108-05-4	10 ppm (35 mg/m3)	15 ppm (53 mg/m3)	Not established	4 ppm (15 mg/m3)

Section 9: Physical and Chemical Properties

State: Liquid	Melting Point: Not avail	Freezing Point: 0C (32F)
Color: Cream	Boiling Point/Range: 100C (212F)	pH <7
Weight per Gallon: 9.83 lbs	Odor: Sweet	Water Solubility: Soluble
Evaporation rate: >1	Flash Point: >200F	Part. Coeff (n-octanol/water) Not avail
Upper Flam Limits: Not avail	Lower Flam Limits: Not avail	Vapor Pressure: -
VOC Content (lbs/gal): Not avail	Viscosity: Not avail	Autoignition Temp: Not avail

Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid freezing.

Incompatible materials: Strong oxidizing agents, strong acids.

Decomposition products: No decomposition products known. Toxic substances may be released in the event of a fire.

Section 11: Toxicological Information

Toxicological Information (product):

Product has not been tested. Product is expected to have low acute oral/dermal/inhalation toxicities. Contains residual vinyl acetate, which is a suspect human carcinogen. Prolonged exposures may be harmful to human health.

Likely Routes of Exposure: Inhalation of vapors/mists, dermal

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LC50 Inh	Irritancy:
vinyl acetate	2920 mg/kg (rat)	>2000 mg/kg (rabbit)	14 mg/L (4hr)	Respiratory

Carcinogenicity or mutagenicity: Contains vinyl acetate as impurity, less than 1% of product. Vinyl acetate is an IARC Group 2B carcinogen (possibly carcinogenic to humans), and a GHS Category 2 carcinogen.

Sensitization: Product is not expected to be a sensitizer.

Other Notes: Not applicable.

Section 12: Ecological Information

Aquatic toxicity: The primary components of this product (>99%) are not expected to be harmful to aquatic organisms. Residual vinyl acetate (<1%) of product is moderately toxic to freshwater fish (12-18 mg/L).

Degradation / Mobility info: No specific information. It is expected to be immobile, due to inert chemical characteristics.

Bioaccumulative potential: No further information.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor. Contains low levels of flammable solvents.

Container disposal: Treat empty containers with extra care, as residual solvents may pose ignition hazard. Consult waste contractor.

Section 14: Transport Information

DOT: Not regulated for transport.

IMO/IMDG: Not regulated for transport.

IATA: Not regulated for transport.

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

TSCA: All components listed on the TSCA 8(b) inventory.

CERCLA RQ: Vinyl acetate (5000 lbs)

SARA 311/312: Chronic hazard.

SARA 302: Vinyl acetate (TPQ 1000 lbs)

SARA 313: Vinyl acetate

California Prop 65 Substances: None known.

Canadian DSL: All substances in product are listed on the DSL.

WHMIS: Product is classified per WHMIS 2015.

Section 16: Other Information

National Fire Protection Association (U.S.A.)

1 - Health

0 - Special

0 - Instability/Reactivity

0 - Flammability

SDS Author: Agrilead Regulatory Manager

Version Date: 7/6/2015

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.