



2718 Industrial Drive
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www.InVitria.com
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MATERIAL SAFETY DATA SHEET

Pg 1 of 7

Section 1: Product Information

Product Name: Albumin-DX (Recombinant Albumin)
Product ID: 777HSA026

Section 2: Composition / Information on Ingredients

Substance Name: Recombinant Human Albumin from Rice Grain
CAS Number: None
Composition: Recombinant Human Albumin approximately 96% protein by weight

Section 3: Hazards Identification

Potential Health Effects

Eye

Dust may cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin

Unlikely to cause skin irritation or injury.

Swallowing

Swallowing this material is not likely to be harmful.

Inhalation

This material is a powder and may produce dust. Breathing small amounts of this material is not likely to be harmful.

Symptoms of Exposure

No data

Target Organ Effects

No data



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MATERIAL SAFETY DATA SHEET

Pg 2 of 7

Developmental Information

There is no data available for assess risk to the fetus from maternal exposure to this material

Cancer Information

There is no information available. The chance of this material causing cancer is unknown. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Other Health Effects

This material can form dust which may cause skin or mucous membrane irritation. Symptoms include redness, burning and swelling. Although they may cause respiratory tract irritation, nuisance dusts do not form scar tissue or affect the structure of air spaces in the lungs. Their effects on the tissues are potentially reversible.

Primary Route(s) of Entry

Inhalation, Skin contact, Eye contact

Section 4: First Aid Measures

Oral Exposure

First aid is not normally required. If symptoms develop, seek medical attention.

Inhaled Exposure

If symptoms develop, move the individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek medical attention.

Dermal Exposure

First aid is not normally required. However, it is recommended that exposed area be cleaned by washing with soap and water.



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MATERIAL SAFETY DATA SHEET

Pg 3 of 7

Eye Exposure

If Symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Note to Physicians

No data

Section 5: Fire Fighting Measures

Autoignition temp: Unknown

Flammability: Non-combustible

Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.

Firefighting: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of the normal products of combustion or oxygen deficiency.

NFPA Rating

Health – 1, Flammability – 0, Reactivity - 0

Section 6: Accidental Release Measures

Small Spill: Sweep up material for disposal or recovery

Large Spill: Shovel material into containers. Thoroughly sweep area of spill, can use moisture to clean up residual material.

Section 7: Handling and Storage

There are no known problems with this material related to handling or storage at room temperature. Store in a cool dry place.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities.



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MATERIAL SAFETY DATA SHEET

Pg 4 of 7

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Mechanical Exhaust required.

Personal Protective Equipment: Respiratory: NIOSH/MSHA-approved respirator

Hand: Compatible, chemical resistant gloves

Eye: Chemical safety goggles

Section 9: Physical / Chemical Properties

Property **Value**

Appearance Off white powder

Physical State Solid

Moisture <10 %

Protein 90%

Conductivity <4 mS

Molecular Weight ~ 67 kDa



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MATERIAL SAFETY DATA SHEET

Pg 5 of 7

<u>Property</u>	<u>Value</u>
pH	N/A
BP/BP range	N/A
MP/MP range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp	N/A
Flash Point °F / °C	N/A / N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	N/A



Section 10: Stability and Reactivity

Stability: N/A

Hazardous Decomposition Products: Unknown

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

The toxicological properties of this material have not been tested and identified. It is unlikely that there will be any toxicological problems with this material. However, appropriate precautions should be taken for a material with "unknown" toxicological properties.

Routes of Exposure: Harm caused by inhalation, ingestion, or skin absorption is undetermined.

Conditions Aggravated by Exposure: The toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

The material is no longer viable as rice seed and therefore cannot be grown in a field. Containment measures should be used to prevent unintended release of the material into the environment. Measures should also be used to prevent unintended mixing of this material with other materials. No ecological data is available for this material.

Section 13: Disposal Considerations

Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

Transport Hazard: This substance is considered to be non-hazardous for transport.



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MATERIAL SAFETY DATA SHEET

Pg 7 of 7

Section 15: Regulatory Information

Questions regarding this material should be directed to InVitria.

Phone: (800) 916-8311 Fax: (785) 238-5688

Address: 2718 Industrial Drive
Junction City, KS 66441 USA

Section 16: Other Information

ISO:9001 certified

Warranty: The above information is believed to be correct but doesn't purport to be all inclusive and shall be used only as a guide. InVitria shall not be held liable for any damage resulting from handling or from contact with the above product.