



SAFETY DATA SHEET

Section I

Product Name: AVI-LUTION® Water Soluble
 Recommended use: A Direct Fed microbial for Poultry
 U.S. Patent No. 6,524,574 & 6,841,149

Revision Date 9/17/15
 US market

Manufacturer's Name
 Agri-King Inc.

Emergency Telephone Number
 N/A

Address (Number, Street, City, State and Zip Code)
 i)18246 Waller Road, Fulton, Illinois 61252, USA

Telephone Number for Information
 815-589-2525

Section II- Hazards Identification

GHS product classification (Regulation (EC) 1272/2008:

This product is not classified as hazardous under any GHS hazard class.

EU product classification according to directives 67/548/EEC or 1999/45/EC:

This product is not a hazardous substance or preparation according to EC Directives 67/548/EEC or 1999/45/EC. AVI-LUTION® Water Soluble is not a Hazardous product.

GHS Product labeling (Regulation (EC) 1272/2008):

Pictogram(s): N/A

Signal word: N/A

Hazard Statements: N/A

Precautionary statements: N/A

Supplemental information: N/A

EU product labeling according to directive 67/548/EEC or 1999/45/EC:

Indication of Danger: N/A

Risk phrase: N/A

Safety phrase: N/A

SECTION III- Hazard Ingredients / Identity Information

Chemical Name/ Common Name(CAS RN)	EINECS Number	Classification	OSHA PEL	ACGIH TLV
General Yeast and or biological components in this product ② (NE)	NE	Xn; R33, S24, S25	NE	NE
Dextrose (50-99-7)	200-075-1	Xi;; R36/37/38;; S24/25:	NE	NE
General Sodium Silico aluminate's ② (NE) *Nuisance Dust	NE	R37; S24/25	15* mg/m ³	NE
Sodium Bicarbonate (144-55-8)	205-633-8	S24/25	NE	NE

① Consult Product Label for use directions and specific concentration information.

② Possibility of skin, eye, respiratory irritation/ sensitization in certain individuals

Section IV First Aid Measures

Route(s) of Entry: Inhalation YES Skin YES Ingestion YES

Health Hazards (Acute and Chronic)

Possible skin, eye, respiratory irritation in certain individuals

Carcinogenicity: NO NIP: N/A IARC Monographs: N/A OSHA Regulated: NO

Signs and Symptoms of Exposure: Possible skin, eye, respiratory irritation in certain individuals

Medical Conditions Generally Aggravated by Exposure: Allergy to enzymes, bacteria, fungi.

Emergency and First Aid Procedures: Skin and Eye irritation should be treated with water washing. Dust or inhalation irritation remove from exposure provide fresh air. Oral ingestion, nausea and excessive eye exposure symptoms, allergic reactions should be treated by a doctor.

Section V Fire-Fighting Measures

Flash Point (Method Used)	N/A
---------------------------	-----

Flammable Limits	N/A
------------------	-----

UEL and LEL	N/A
-------------	-----

Extinguishing Media: Water, CO₂, dry Chemical, foam

Special Fire Fighting Procedures: Foam, Carbon dioxide, dry chemical, or water spray

In the case of respirable dust and / or fumes, use self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: None Known

Section VI Accidental Release Measures

Personal precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section VIII). Follow firefighting procedures (Section V).

Section VII Handling and Storage

Put on appropriate personal protective equipment, Use with adequate ventilation.

Steps to Be Taken in Case Material is Released or Spilled

Spill: Vacuum or moisten with water. Collect into a closed container. Do not use cleaning methods that generate dust or aerosol.

Waste Disposal method: Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

Precautions to Be Taken in Handling and Storing: Store in a cool dry place, keep container closed, keep away from heat and flame and other ignition sources. Do not store product in direct Sunlight as this may degrade product quality. Use with adequate ventilation.

Other Precautions: Avoid generating dust or mist. Avoid breathing dust or mist. Use proper engineering and administrative controls and/or wear personal protection equipment as necessary to control human exposure below applicable limits.

Section VIII: Exposure Controls/ Personal Protection

Skin and Eye irritation should be treated with water washing. Respiratory irritation remove from exposure provide fresh air. Allergic reactions should be treated by a doctor.

Control parameters: no applicable exposure limits for the product. All personal protective equipment must conform to Directive 89/686/EEC.

Control parameters: no applicable exposure limits for the product. All personal protective equipment must conform to Directive 89/686/EEC.

Engineering Controls: Always provide effective general and , when necessary, local exhaust ventilation to draw spray, aerosol, fume , mist, vapor or dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient work place atmosphere below exposure limits outlined in the SDS.

Eye/face protection: Wear eye protection

Hand Protection: Avoid skin contact wearing of gloves, is recommended.

Skin and Body protection: overalls, safety goggles, and protective gloves are recommended.

Respiratory protection: Respiratory protection should not be needed with proper ventilation.

See section VII for additional precaution information.

Do not eat or Drink. Observe good personal hygiene and wash with soap and water after handling.

Section IX Physical and Chemical properties

Boiling Point, ° C	N/A
Bulk Density (lb/ft ³)	63
Vapor Density	N/A
Explosive limits upper level (UEL) and lower level (LEL)	N/A
Fat Solubility	N/A
Viscosity	N/D

Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in Water	Partially Soluble,
Vapor Pressure	N/A
pH (10% aqueous)	N/D
Partition Coefficient (n-octanol/water)	N/D
% Volatile	N/D

Appearance / Odor	Tan brown color free flowing granular meal texture. Pleasant to Neutral odor
-------------------	--

Section X Stability and Reactivity

Reactivity

Incompatibility (*Materials to Avoid*): Strong oxidizers, acids, heat and moisture. Avoid Heat flames and other ignition sources.

Stability

Stability: Product is stable under normal warehouse storage conditions

Other

Hazardous Decomposition or Byproducts: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Product does not polymerize.

Section XI Toxicological information

Caution must be exercised through prudent use of protective equipment and handling procedures to minimize exposure.

Information on toxicological effects: No additional information.

Inhalation: High airborne concentrations of vapors resulting from heating, misting, or spraying may cause irritation of the respiratory tract and mucous membranes.

Eyes: May cause eye irritation.

Acute toxicity information: No toxicity studies have been conducted on this product.

Other toxicity information: No additional information available.

Section XII Ecological Information

Put on appropriate personal protective equipment (See section VIII). Use with adequate ventilation (See Section VII).

Toxicity: No ecological testing has been conducted on this product.

Persistence and degradability: No Specific information is available.

Bioaccumulative potential: No Specific information is available.

Mobility: No Specific information is available.

Results of PBT and vPvB assessment: Not available.

Other adverse effects: No additional Information.

Section XIII Disposal

Methods of Disposal: See Section VII. No additional information is available.

Waste Classification: This product is not a hazardous waste. The user should consider that a hazardous waste is not generated from their clean-up efforts.

European Waste Catalogue: This product when accidentally released is not classified as a hazardous waste per the EWC.

http://www.nwcpo.ie/forms/EWC_code_book.pdf.

http://www.biffa.co.uk/assets/files/Content%20PDF/EWC_Paper-v1.09.pdf

Waste Treatment methods: See Section VII for disposal method.

See Section XI for additional information.

Section XIV Transport Information For the final product

UN/NA Number: N/A

TDG Class: N/A

Packing Group: N/A

ICAO/IATA Class: N/A

IMDG Class: N/A

U.S. DOT Class: N/A

ADR/RID Class: N/A

UN proper shipping name: Not regulated see section XV

Section XV Regulatory Information

REACH: EC 1907/2006- does not apply to feeding stuffs.

CLP Regulation (EC) No 1272/2008 does not apply to non-hazardous products.

GHS product classification Regulation (EC) 1272/2008 does not apply to mixtures of food or feeding stuffs.

EU product classification Directive 1999/45/EEC does not apply to animal feeding stuffs.

Not a hazardous substance under directive 67/548/EEC or 1999/45/EC.

Water Hazard Class for France, Netherlands, and Germany: WGK: ND

(http://www.umweltbundesamt.de/sites/default/files/medien/419/dokumente/classification_engl.pdf)

Section XVI Risk and Safety Phrases on Components identified in Section III

R33 Danger of cumulative effects.

R37 Irritating to respiratory system.

R36/37/38: Irritating to eyes, respiratory system and skin.

S24 Avoid contact with skin.

S25 Avoid contact with eyes.

S24/25 Avoid contact with skin and eyes.

EU Authorizations and or restrictions on use: Components approved through EFSA. See product label for feeding directions or application of use.

National Regulations: No additional information.

Other EU information: No additional information.

Legend:

ADR/RID: European dangerous goods transportation road and rail regulations

CLP: Classification, Labeling and Packaging

DOT: Department of Transportation (United States)

EC Directive: Directive of the European Parliament and of the Council

EEC: European Economic Community

EFSA: European Food safety Authority

EINECS: European Inventory of Existing Commercial Substances

ESIS: European chemical substance Information System

EU: European Union

EWC: European Waste Catalogue and Hazardous Waste list

GHS: Globally Harmonized System for the classification and labeling of Chemical (United Nations)

IATA: International Air Transportation Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods Code

IARC Monographs: International Agency for Research on Cancer

MAK: Maximum Workplace Concentration

“N/A”: Information is not available on the final product

“N/D”: Information is not determined on the final product

“NE”: Information not established for the specific substance or finished product.

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals Regulation

TDG: Canadian Transportation of Dangerous Goods Act and Regulations

UN: United Nations

US: United States

The only official document is the English version

Users Responsibility / disclaimer of liability

The opinions expressed herein are those of qualified personnel with Agri-King, Inc. We believe the information contained herein is current as of the date of the Safety Data Sheet. Since the use of this information and opinions and the conditions of use of the product are not within the control of Agri-King, Inc., it is the user's obligation to determine the conditions of safe use of this product.

Revision table

Date	action	reviewer's initial
August 14, 2015	Date of Issue	ASG
September 17, 2015	Formatting	ASG