



Altech, INC.
SAFETY DATA SHEET
(Globally Harmonized System)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

INTEGRAL® A+

1.2 Other means of identification Not applicable

1.3 Recommended use of the chemical and restrictions on use

INTEGRAL® A+ is a hydrolyzed yeast supplement for the further manufacture of livestock, poultry, and pet foods.

1.4 Details of the supplier of the safety data sheet

Altech Inc.
3031 Catnip Hill Road
Nicholasville, KY 40356
Phone: 859-885-9613
Fax: 859-887-6736

1.5 Emergency telephone number

Chem Trec: 1-800-424-9300 24 hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Not applicable

2.2 GHS Label elements

H Statements:

May create a flash fire or explosion hazard if dust of certain particle size is suspended in air at sufficient concentration in a confined space and exposed to an ignition source.

P Statements:

Dust may burn if suspended in air and may create a flash fire/explosion hazard. Avoid ignition source. Product is not generally considered hazardous, but dust generated through downstream activities that may reduce its particle size may create hazardous conditions.

2.3 Other hazards

Inhalation: Exposure to dust may cause irritation to the nose, throat or respiratory system. If application creates dust, use appropriate approved respiratory protection. Persons with allergies should avoid exposure.

Skin Contact: Skin contact may cause a slight irritation. Symptoms may include redness, itching and pain. Persons with allergies should avoid exposure.

Eye Contact: Product may cause slight irritation. Symptoms include redness, itching and pain.

Ingestion: Not found to be toxic by oral exposure. Ingestion of this product may cause slight irritation.

Chronic Health Effects: Not identified.

SECTION 3: Composition/information of ingredients

- 3.1 Substances Not applicable
- 3.2 Mixtures

CAS#:	Component	Weight %
NA	Hydrolyzed yeast	Not disclosed
NA	Corn distillers dried grains with solubles	Not disclosed
NA	Hydrated sodium calcium aluminosilicate	Not disclosed
NA	Dried seaweed meal	Not disclosed

NA: Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes: Flush eyes immediately with copious amounts of clean water for 15 minutes. If irritation or redness persists, seek medical attention if allergic response exhibited.

Skin: Remove affected clothing immediately. Flush affected area(s) with copious amounts of soap and water. If skin surface is damaged, apply a clean dressing. Wash contaminated clothing before reuse. If irritation or redness develops, seek medical attention immediately.

Inhalation: Remove victim from source and allow to rest in well ventilated area. If breathing is difficult, obtain medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

- 4.2 Most important symptoms and effects, both acute and delayed Not identified.
- 4.3 Indication of any immediate medical attention and special treatment needed Not identified.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Use media that is appropriate to treat surrounding fire. Consider alcohol-resistant foam, carbon dioxide, regular dry chemical, or water spray. Do not use strong streams of water or dry chemical if dust can be dispersed into the air. Dust placed in suspension with an ignition source present may flash or explode. Self contained breathing apparatus is required.

5.2 Special hazards arising from the substance or mixture

Evolves carbon dioxide, carbon monoxide or hydrocarbon fumes upon combustion.

5.3 Special protective actions for fire-fighters

Move container from fire area if it can be done without risk. Do not scatter spilled material with high pressure water streams. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products.

Fire fighters should wear self-contained breathing apparatus with full face piece operated in positive pressure mode and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate the area. Wear appropriate protective equipment as specified in section 8. Avoid dust formation and avoid inhalation of dust. Use a respirator or a combination filter. Keep unnecessary personnel away.

6.2 Environmental precautions

Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material. Do not dispose in canals, surface water, or ground water.

6.3 Methods and material for containment and cleaning up

Avoid dispersal of dust in the air (i.e. cleaning dust surfaces with compressed air in the presence of ignition source should not be allowed). Non-sparking tools should be used. Sweep, shovel, or vacuum up the material. Use caution as product may be slippery when wet. Keep product out of sewage and drainage systems and all bodies of water. Clean spills immediately. Ventilate the contaminated area. Thoroughly wash the area with water after a spill.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Remove dust from Area/processing equipment prior to using any heat producing equipment. Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly with soap and water after handling. The use of respiratory protection is advised when dust concentrations exceed any established exposure limits (see section 8).

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Open containers should be resealed. Shelf life under these conditions is 36 months.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Not available

Component (CAS#):

8.2 Appropriate engineering controls:

Use process enclosure, general dilution ventilation, or local exhaust systems, where necessary to maintain airborne dust concentrations below the applicable regulations. A

system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

8.3 Individual protection measures

- Eye/face:** Protective goggles or face shields.
- Skin:** Wear impervious gloves and general purpose overalls with elasticized cuffs and leg bottoms. Persons with allergies should avoid exposure.
- Respiratory:** Protection is not normally required. Wear a dust mask or other appropriate approved respiratory protection when effective engineering controls are not feasible or during operations that generate airborne dust concentrations exceeding the relevant standards. A respiratory protection program that meets applicable requirements whenever workplace conditions warrant a respirator's use. Persons with allergies should avoid exposure.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Physical appearance	Light tan powder
(b) Odour	Not available
(c) Odour Threshold	Not available
(d) Bulk Density	Not available
(e) pH	Not available
(f) Melting point/freezing point	Not available
(g) Initial boiling point	Not available
(h) Flash point	Not available
(i) Evaporation rate	Not available
(j) Flammability	Not available
(k) Upper/lower flammability or explosive limits	Not available
(l) Vapour pressure	Not available
(m) Vapour density	Not available
(n) Relative density	Not available
(o) Solubility	Not available
(p) Partition coefficient: n-octanol/water	Not available
(q) Auto ignition temperature	Not available
(r) Decomposition temperature	Not available
(s) Viscosity	Not available

9.2 Other information

To the best of our knowledge the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

SECTION 10: Stability and reactivity

10.1	Reactivity	Not available
10.2	Chemical stability	Product is stable under normal storage conditions (21°C, 1atm).
10.3	Possibility of hazardous reactions	Not available
10.4	Conditions to avoid	Avoid moisture, heat and sources of ignition.
10.5	Incompatible materials	Not available
10.6	Hazardous decomposition products	Not available

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- | | |
|---------------------------------------|---|
| (a) Acute toxicity | Not identified |
| (b) Skin corrosion/irritation | Not expected to be toxic. Exposure may cause slight irritation. |
| (c) Serious eye damage/irritation | Not available |
| (d) Respiratory or skin sensitization | Not available |
| (e) Germ cell mutagenicity | Not available |
| (f) Carcinogenicity | Not applicable |
| (g) Reproductive toxicity | Not applicable |
| (h) STOT-single exposure | Not applicable |
| (i) STOT-repeated exposure | Not applicable |
| (j) Aspiration hazard | Not applicable |
- 11.2 Information on the likely routes of exposure Not applicable
- 11.3 Symptoms related to the physical, chemical and toxicological characteristics Not applicable
- 11.4 Delayed and immediate effects and also chronic effects from short and long term exposure
Not applicable
- 11.5 Other information
 Other toxicological information: To the best of our knowledge the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

SECTION 12: Ecological information

- | | |
|--------------------------------------|---------------|
| 12.1 Toxicity | Not available |
| Component (CAS#):
Test & Species: | |
| 12.2 Persistence and degradability | Not available |
| 12.3 Bioaccumulative potential | Not available |
| 12.4 Mobility in soil | Not available |
| 12.6 Other adverse effects | Not available |

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods Not identified
- Disposal Instructions: Consult local, state and/or provincial environmental regulatory authorities for acceptable disposal procedures and locations. Follow standard disposal procedures in accordance with Directive 2008/98/EC of the European Parliament and of the Council of the Member State.

SECTION 14: Transport information

- | | |
|--|----------------|
| 14.1 UN number | Not applicable |
| 14.2 UN proper shipping name | Not applicable |
| 14.3 Transport hazard class(es) | Not applicable |
| 14.4 Packing group | Not applicable |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | Not applicable |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | |

Not applicable

SECTION 15: Regulatory information

- 15.1 Safety, health, and environmental regulation/legislation specific for the substance or mixture
Not available

SECTION 16: Other information

Preparation Date: 02 February 2016
Issue Date: 02 February 2016
Previous Issue Date: 06 May 2015

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Alltech, Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.

INTEGRAL® A+

Hydrolyzed yeast supplement for the further manufacturing of livestock, poultry and pet foods

Directions For Use

Beef and Dairy Cattle

Sheep
Poultry

Pigs Reproduction Herd

Replacement/Market Pigs

Horses

Pets

Initial Maintenance
Step Down Program

All Classes

Starter

Grower

Finisher

Gestation

Lactation

Boars

Starter

Grower/Finisher

Foals

Performance

Breeding

All Classes of Dogs

All Classes of Cats

Up to 30 g/head/day

10 g/head/day

Weeks 1 & 2: 30 g/head/day

After 1 - 2 Weeks: 10 g/head/day

10 - 20 g/head/day

1 - 4 lbs/ton

1 - 2 lbs/ton

1 - 4 lbs/ton

1 - 4 lbs/ton

2 lbs/ton

1 - 4 lbs/ton

1 - 2 lbs/ton

4 - 8 g/head/day

5 - 15 g/head/day

10 - 20 g/head/day

4 lbs/ton of finished feed

4 lbs/ton of finished feed

Guaranteed Analysis

Crude Protein

Min. 18%

Crude Fat

Min. 2.0%

Crude Fiber

Max. 8.0%

Moisture

Max. 10%

Ingredients

Hydrolyzed yeast, Corn distillers dried grains with solubles, Hydrated sodium calcium aluminosilicate and Dried seaweed meal.

Storage

INTEGRAL A+ should be stored in a cool, dry place. Open containers should be resealed. Shelf life under these conditions is 36 months.

Expiration Date
01/12/2018
day/month/year

Batch Number
46198-10

UPC
(02) 0 0747301 02170 8

Net Weight:

55.1 lbs (25 kg)

Item Number: 08.2733.067.089.US0.36 V2

REV 12/15 AJ

Manufactured by:

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INTEGRAL® A+

Product Specifications

Product Description

INTEGRAL A+ is a hydrolyzed yeast supplement for the further manufacture of livestock, poultry and pet foods.

Label Information

Guaranteed analysis		Ingredients
Crude Protein	Min. 18.0%	Hydrolyzed yeast, Corn distillers dried grains with solubles, Hydrated sodium calcium aluminosilicate and Dried seaweed meal.
Crude Fat	Min 2.0%	
Crude Fiber	Max. 8.0%	
Moisture	Max. 10.0%	

Physical Characteristics

Appearance: INTEGRAL A+ is light tan colored powder

Storage and Shelf Life

INTEGRAL A+ should be stored in a cool, dry place. Open containers should be resealed. Shelf life under these conditions is 36 months.

Packaging

INTEGRAL A+ is available in 55.1 lb (25 kg) bags.

Directions for Use

BEEF AND DAIRY CATTLE

Initial	Up to 30 g/head/day
Maintenance	10 g/head/day
Step Down Program	Weeks 1& 2 - 30 g/head/day After 1-2 Weeks - 10 g/head/day

SHEEP

All Classes	10 - 20 g/head/day
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POULTRY

Starter	1-4 lb/ton
Grower	1-2 lb/ton
Finisher	1-2 lb/ton

PIGS

Reproduction Herd

Gestation	1-4 lb/ton
Lactation	1-4 lb/ton
Boars	2 lb/ton

Replacement/Market Pigs

Starter	1-4 lb/ton
Grower, Finisher	1-2 lb/ton

HORSES

Foals	4-8 g/head/day
Performance	5-15 g/head/day
Breeding	10-20 g/head/day

PETS (of Finished Feed)

All Classes of Dogs	4 lb/ton
All Classes of Cats	4 lb/ton

3031 Catnip Hill Road

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Nicholasville, KY 40356

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