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### 1. Identification

1.1. Product identifier

**Product Identity** Rovabio Excel AP (Powder) **Alternate Names** Rovabio Excel AP (Powder)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet. **Application Method** See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

**Company Name** Adisseo USA Inc.

Adisseo USA Inc.

4400 North Point Pkwy, Suite 275

Alpharetta, GA 30022

**Emergency** 

24 hour Emergency Telephone No. Carechem24 Toll Free (800) 727-5083 Customer Service: Adisseo USA Inc. For Product Information: (800) 727-1019

Tel. 678.339.1500 - Fax 678.339.1600

## 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Resp. Sens. 1;H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.

Combustible Dust May form combustible dust concentrations in air.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

May form combustible dust concentrations in air.

#### [Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P285 In case of inadequate ventilation wear respiratory protection.



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#### [Response]:

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.

#### [Storage]:

No GHS storage statements

#### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Wheat flour CAS Number: 0130498-22-5	50 – 75	Combustible Dust	[1]
Xylanase, endo-1,4- CAS Number: 0009025-57-4	1.0 - 10	Resp. Sens. 1;H334	[1]
Glucanase, endo-1,3(4)-β- CAS Number: 0062213-14-3	10 - 25	Resp. Sens. 1;H334	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First aid measures

#### 4.1. Description of first aid measures

**General** Notes to Physician: All treatments should be based on observed signs and symptoms of

distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific

antidote available.

**Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give

artificial respiration. If unconscious place in the recovery position and obtain immediate

medical attention. Give nothing by mouth.

**Eyes** Rinse particulate matter from eye. Seek medical attention if irritation develops or persists or

if visual changes occur.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser.

<sup>[1]</sup> Substance classified with a health or environmental hazard.

<sup>[2]</sup> Substance with a workplace exposure limit.

<sup>[3]</sup> PBT-substance or vPvB-substance.

<sup>\*</sup>The full texts of the phrases are shown in Section 16.



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**Ingestion** If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by

mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

#### 4.2. Most important symptoms and effects, both acute and delayed

Overview Acute Eye: Irritant. Can cause irritation and redness upon prolonged contact.

Acute Skin: Skin absorption not likely. May cause dryness and irritation upon prolonged

contact.

Acute Inhalation: Dusts may cause respiratory tract irritation.

Acute Ingestion: Low acute oral toxicity.

Chronic Effects: None known.

Medical Conditions Possibly Aggravated by Exposure: Inhalation of product may aggravate

existing chronic respiratory problems such as asthma, emphysema or bronchitis.

This product is a feed additive and diet supplement. Over dosage can cause serious health effects. May cause allergic skin or respiratory reaction. Dusts may form explosive mixtures

in air.

See section 2 for further details.

**Inhalation** May cause allergy or asthma symptoms of breathing difficulties if inhaled.

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon

Avoid breathing dust / fume / gas / mist / vapors / spray.

#### 5.3. Advice for fire-fighters

Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

Product will burn under fire conditions. Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.

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#### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.



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#### 6.3. Methods and material for containment and cleaning up

Sweep up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal.

Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

## 7. Handling and storage

#### 7.1. Precautions for safe handling

Avoid breathing dusts. Avoid direct or prolonged contact with skin and eyes. THIS PRODUCT PRESENTS A DUST EXPLOSION HAZARD. It is recommended that all dust control equipment and material transport systems involved in the handling of this product contain explosion relief vents or explosion suppression systems or an oxygen deficient environment. In addition, all conductive elements of the system that contact this material should be electrically bonded and grounded. This powder should only be flowed through non-conductive ducts or pipes. Use only appropriate classed electrical equipment.

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong bases, strong acids and strong oxidizing agents

Store in tightly-closed, original container. Store in an area that is cool, dry, dark and well-ventilated.

See section 2 for further details. - [Storage]:

#### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

#### 8.1. Control parameters

#### **Exposure**

CAS No.	Ingredient	Source	Value
0009025-57-4 Xylanase, endo-1,4-		OSHA	No Established Limit
	ACGIH	No Established Limit	
		NIOSH	No Established Limit
		Supplier	No Established Limit
0062213-14-3	Glucanase, endo-1,3(4)-β-	OSHA	No Established Limit
	ACGIH	No Established Limit	
		NIOSH	No Established Limit
		Supplier	No Established Limit

The exposure limits for nuisance dust are: OSHA PEL: 15 mg/m3 (50 mppcf\*) TWA, ACGIH 10 mg/m3.



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#### Carcinogen Data

CAS No.	Ingredient	Source	Value			
0009025-57-4	Xylanase, endo-1,4-	OSHA	Select Carcinogen: No			
		NTP Known: No; Suspected: No				
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;			
0062213-14-3	Glucanase, endo-1,3(4)-β-	OSHA	SHA Select Carcinogen: No			
		NTP	Known: No; Suspected: No			
	IARC Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4					

8.2. Exposure controls

**Respiratory** When respirators are required, select NIOSH/MSHA approved equipment based on actual

or potential airborne concentrations and in accordance with regulatory standards and/or

industrial recommendations. Dust/mist filtering respirator is recommended.

**Eyes** A minimum of safety glasses with side shields is recommended.

**Skin** Skin contact should be minimized through the use of gloves and suitable long-sleeved

clothing.

**Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the

use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits

suitable respiratory protection must be worn.

Other Work Practices The following general measures should be taken when working or handling this material:

1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3) Wash exposed skin

promptly to remove accidental splashes of contact with this material.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

**Appearance** Off White Powder

**Odor** Slight

Odor threshold

PH

Not Measured

Not Measured

Melting point / freezing point

Not Measured

Initial boiling point and boiling range

Flash Point

Point

Not Measured

Not Measured

Flammability (solid, gas)

Not Applicable

Upper/lower flammability or explosive limits Lower Explosive Limit: Not Measured

**Upper Explosive Limit: Not Measured** 

Vapor pressure (Pa) Not Measured



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Vapor Density
Not Measured
Specific Gravity
Not Measured
Solubility in Water
Insoluble
Partition coefficient n-octanol/water (Log Kow)
Not Measured
Auto-ignition temperature
Not Measured
Decomposition temperature
Viscosity (cSt)
Not Measured

9.2. Other information

No other relevant information.

## 10. Stability and reactivity

#### 10.1. Reactivity

Hazardous Polymerization will not occur.

#### 10.2. Chemical stability

Stable under normal circumstances.

#### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Extreme heat, open flame, dusting conditions.

#### 10.5. Incompatible materials

Strong bases, strong acids and strong oxidizing agents

#### 10.6. Hazardous decomposition products

Oxides of carbon

## 11. Toxicological information

#### **Acute toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Xylanase, endo-1,4 (9025-57-4)	No data available	No data available	No data available	No data available	No data available
Glucanase, endo-1,3(4)-β (62213-14-3)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).



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Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

## 12. Ecological information

#### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### **Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l	
Xylanase, endo-1,4 (9025-57-4)	Not Available	Not Available	Not Available	
Glucanase, endo-1,3(4)-β (62213-14-3)	Not Available	Not Available	Not Available	

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects

No data available.



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### 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

### 14. Transport information

DOT (Domestic Surface

Transportation)

Not Applicable

Not Regulated

14.3. Transport hazard DOT Hazard Class: Not

class(es) Applicable

**14.4. Packing group** Not Applicable

14.5. Environmental hazards

14.2. UN proper shipping

14.1. UN number

name

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

IMO / IMDG (Ocean ICAO/IATA Transportation)

Not Regulated Not Regulated Not Regulated Not Regulated

Air Class: Not Applicable

**IMDG:** Not Applicable

**Sub Class:** Not Applicable

Not Applicable Not Applicable

## 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected

regulations are represented.

Toxic Substance Control Act ( TSCA) All components of this material are either listed or exempt from listing on the TSCA

Inventory.

WHMIS Classification D2A

US EPA Tier II Hazards Fire: No

**Sudden Release of Pressure:** No

Reactive: No

Immediate (Acute): Yes Delayed (Chronic): No

#### EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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#### Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### **New Jersey RTK Substances (>1%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### Pennsylvania RTK Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### 16. Other information

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.

The full text of the phrases appearing in section 3 is:

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

## This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: The information and recommendations in this data sheet are believed to be correct and reliable. However, the data are offered for consideration and verification by the user and Adisseo Canada Inc. offers no guarantee, warranty or representation as to the accuracy or completeness of the data.

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