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#### 1. Identification

1.1. Product identifier

**Product Identity** Rovabio Excel AP 10 % (Powder) Rovabio Excel AP 10 % (Powder) **Alternate Names** 

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

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

1.3. Details of the supplier of the safety data sheet

**Company Name** Adisseo Canada Inc.

Adisseo Canada Inc. c/o Adisseo USA Inc.

4400 North Point Pkwy, Suite 275

Alpharetta, GA 30022

**Emergency** 

24 hour Emergency Telephone No. Carechem24 Toll Free (800) 579-7421 Customer Service: Adisseo Canada Inc. Tel 800.387.2123 Fax 888.821.7726

### 2. Hazard(s) identification

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

Acute Tox. 5:H303 May be harmful if swallowed. (Not adopted by US OSHA)

Skin Sens. 1;H317 May cause an allergic skin reaction.

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.



Danger

H303 May be harmful if swallowed.

H317 May cause an allergic skin reaction.

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

May form combustible dust concentrations in air.



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#### [Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

P285 In case of inadequate ventilation wear respiratory protection.

#### [Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P313 Get medical advice / attention.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P341 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.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

#### [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.

Notes
[1]
[1][2]
[1]
[1]



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Mineral oil (saturated parrafin oil)	1.0 - 10	Asp. Tox. 1;H304	[1][2]
CAS Number: 0008012-95-1			

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.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

#### 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.

**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.

See section 2 for further details.

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

**Ingestion** May be harmful if swallowed. (Not adopted by US OSHA)

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

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

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

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#### 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.

#### 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.



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## 8. Exposure controls and personal protection

#### 8.1. Control parameters

#### **Exposure**

CAS No.	Ingredient	Source	Value
0000471-34-1	Calcium carbonate	OSHA	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	No Established Limit
		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
		Supplier	No Established Limit
0008012-95-1	Mineral oil (saturated parrafin oil)	OSHA	TWA 5 mg/m3
	ACGIH	No Established Limit	
	NIOSH	TWA 5 mg/m3 ST 10 mg/m3	
	Supplier	No Established Limit	
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 Gluca	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.

#### **Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000471-34-1 Calcium carbonate		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;
0008012-95-1	Mineral oil (saturated parrafin oil)	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;
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	0062213-14-3 Glucanase, endo-1,3(4)-β-		Select Carcinogen: No
			Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

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#### 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 Pale Yellow Flaky, Grain-Like

**Odor** Slight

Odor threshold

pH

Not Measured

Not Measured

Melting point / freezing point

Not Measured

Initial boiling point and boiling range

Flash Point

Flash Point

Not Measured

Not Measured

Not Measured

Not Measured

Not Measured

Not Applicable

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

**Upper Explosive Limit:** Not Measured

Vapor pressure (Pa) Not Measured **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** Not Measured Viscosity (cSt) Not Measured



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#### 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
Calcium carbonate - (471-34-1)	2,000.00, Rat - Category: 4	No data available	No data available	No data available	No data available
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
Mineral oil (saturated parrafin oil) - (8012-95-1)	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).

Classification	Category	Hazard Description
Acute toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute toxicity (dermal)		Not Applicable



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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	1	May cause an allergic skin reaction.
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
Calcium carbonate - (471-34-1)	56,000.00, Gambusia affinis	Not Available	Not Available
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
Mineral oil (saturated parrafin oil) - (8012-95-1)	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 IMO / IMDG (Ocean

Transportation)Transportation)Not ApplicableNot RegulatedNot

14.1. UN numberNot ApplicableNot RegulatedNot Regulated14.2. UN proper shippingNot RegulatedNot RegulatedNot RegulatednameNot Regulated

14.3. Transport hazard DOT Hazard Class: Not IMDG: Not Applicable Air Class: Not Applicable

class(es) Applicable Sub Class: Not Applicable

**14.4. Packing group** Not Applicable Not Applicable Not Applicable

14.5. Environmental hazards

**IMDG** Marine Pollutant: No

14.6. Special precautions for user

No further information

### 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 All components of this material are either listed or exempt from listing on the TSCA

Control Act (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%):

Mineral oil (saturated parrafin oil)

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

Mineral oil (saturated parrafin oil)

### 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:

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

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

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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