

Section 1: IDENTIFICATION

Product Name Enviva® Pro 201 GT
Material no A66082
Formula Not applicable
Synonyms Not applicable
Recommended Use Animal feed.
Company/undertaking identification Danisco Animal Nutrition
 PO Box 777
 Marlborough
 Wiltshire SN81XN
 United Kingdom
 Tel: +441672 517777.
E-mail Address SDS-Genencor@Danisco.com
Emergency Telephone +1 (319) 368-7657. a Distribution incident - Spill, Leak, or Accident
 CALL CHEMTREC - 800-424-9300 (within US)
 DuPont registration number 671983

Section 2: HAZARDS IDENTIFICATION

Eyes Not expected to be an eye irritant.
Skin Not expected to cause irritation.
Inhalation Not expected to cause irritation.
Ingestion Not expected to be toxic by ingestion.
Aggravated Medical Conditions None known
Environmental Hazard See Section 12 for additional Ecological Information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description No information available

Chemical Name	CAS-No	%	OSHA	ACGIH
Calcium carbonate	471-34-1	94-99	Not Listed	Not Listed
Bacillus subtilis	NA	1-5	Not Listed	Not Listed

Enviva® Pro 201 GT**Section 4: FIRST AID MEASURES**

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Ingestion	Rinse mouth thoroughly with water. If swallowed Call a POISON CENTER or doctor/physician if you feel unwell.
Notes to Physician	None.

Section 5: FIRE FIGHTING MEASURES

Flammable Properties	Not flammable.
Suitable Extinguishing Media	Extinguish with alcohol-resistant foam, fire extinguishing powder or water spray.
Protective Equipment and Precautions for Firefighters	Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8. Avoid generation of dust / aerosols. Avoid breathing dust or spray mist.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid generation of dust / aerosols. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	Keep at temperatures below 25°C / 77°F. Keep container tightly closed and dry. Protect from light. Store in original container.
Technical Measures/Precautions	Ensure adequate ventilation

Enviva® Pro 201 GT**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines Component information below is as complete as possible. Any fields not shown indicate no data is presently available.

Occupational Exposure Controls

Engineering Measures Transfer substance using enclosed system e.g. using drum pump. Transfer via enclosed lines. Formulate in enclosed or ventilated mixing vessels. Carefully handle the substance to minimize releases of dust, aerosols.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Impervious gloves.
Respiratory Protection Use NIOSH approved respiratory protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white flakes	Odor:	Odorless.
Physical State:	solid	pH	Not determined
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Decomposition Temperature	Not determined	Boiling point / boiling range	Not determined
Melting Point/Range	Not determined	Freezing Point	Not determined
Explosion Limits	Not determined	Flammability Limits in Air	Not applicable
Water solubility	Soluble	Specific Gravity	Not determined
Vapor Pressure	Not determined	Evaporation Rate	Not determined
		Vapor Density	Not determined

Section 10: STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products None known

Conditions to avoid Avoid dust formation.

Hazardous Decomposition Products None known.

Hazardous Polymerization Hazardous polymerization does not occur

Enviva® Pro 201 GT**Section 11: TOXICOLOGICAL INFORMATION****Product Information**

Acute toxicity	
Oral	No data available.
Dermal	No information available
Inhalation	No information available
Irritation	
Eye irritation	No information available
Skin irritation	No information available
Respiratory Irritation	No data available
Sensitization	No information available
Systemic toxicity	There is no data available for this product.
Mutagenic effects	No information available
Reproductive effects	No information available

Component Information

Calcium carbonate	
Oral	LD50/oral/rat 6450 mg/kg.
Eye irritation	May cause irritation
Skin Irritation	May cause skin irritation.
Respiratory irritation	Irritating to respiratory system.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity effects	Ecotoxicity unknown / Not determined.
Mobility	Soluble.
Persistence and Degradability	Enzymes are considered readily biodegradable.
Bioaccumulation/Accumulation	Bioaccumulation is unlikely.

Component Information

Component information below is as complete as possible. Any fields not shown indicate no data is presently available.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia	Biodegradation
Calcium carbonate	No data	LC50/96hr/Gambusia affinis: 56000 mg/L.	No data.	No data.

Enviva® Pro 201 GT**Section 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Methods In accordance with local and national regulations.

Packaging If empty container retains product residues, all label precautions must be observed. Store away from ignition sources. Transport with all closures in place. Return for reuse or dispose according to national or local regulations.

Section 14: TRANSPORT INFORMATION

Harmonized Tariff Code: 3507.90.7000 (for enzymes).

DEPT. OF TRANSPORTATION UN OR NA NUMBER Not classified as dangerous in the meaning of transport regulations.

Hazard class Not hazardous.

Packing group Not applicable

Reportable Quantity Not applicable

Section 15: REGULATORY INFORMATION**HAZARD RATING SYSTEMS:**

HMIS (SCALE 0-4, WHERE 4=SEVERE HAZARD): Health: 2 Flammability: 1 Reactivity: 0

U.S. Federal Regulations

Chemical Name	SARA 313 - Threshold Values %	CERCLA/SARA - Section 302 Extremely Haz
Calcium carbonate	Not listed.	Not listed.
Bacillus subtilis	Not listed.	Not listed.

U.S. State Regulations

This product does not contain any Proposition 65 chemicals.

Enviva® Pro 201 GT

Section 16: OTHER INFORMATION

Prepared By SDS-Genencor@Danisco.com
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Revision Number 1

Changes since last date of revision: Revisions made to Section 2. HAZARDS IDENTIFICATION.
Revisions made to Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Revisions made to Section 11. TOXICOLOGICAL INFORMATION.
Revisions made to Section 12: ECOLOGICAL INFORMATION.

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END OF SDS