

SAFETY DATA SHEET

Revision date: 2024/12/11

Compliant with 29 CFR §1910.1200 HCS 2012

Compliant with HPR WHMIS 2015

Innova® Quantum ADY

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Innova® Quantum ADY
Chemical Name	Yeast; <i>Saccharomyces cerevisiae</i>
Declared activity	Yeast viable count

Use of the substance/preparation	For industrial use only
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Supplier's details

Novozymes North America, Inc.
77 Perry Chapel Church Rd., Box 576
Franklinton, NC 27525
E-mail: SafetyDataSheet@novozymes.com
www.novozymes.com

Information Telephone Number

1-919-494-3000, 8 am - 4:30 pm EST M-F

Emergency Telephone Number

1-800-424-9300 (Chemtrec) 24 hours every day

2. HAZARD IDENTIFICATION

Classification

Classification of the chemical in accordance with 29CFR §1910.1200

WHMIS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Precautionary Statements - Prevention

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P312 - Call a POISON CENTER/doctor/physician if you feel unwell

The Substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.

In unbroken packaging - dry and protect from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperatures or higher humidity may lead to a higher dosage requirement.

Intended for fuel ethanol production with distiller's grains co-product

Avoid formation of dust and aerosols

Ensure adequate ventilation

This product contains genetically modified organisms, *Saccharomyces cerevisiae*.

Hazards not otherwise classified (HNOC)

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Genetically modified yeast; *Saccharomyces cerevisiae*

4. FIRST AID MEASURES

In case of unintended overexposure, the following measures apply

Inhalation

Effects No information available.
Symptoms No information available.

First Aid Remove person to fresh air. If signs/symptoms continue, get medical attention. Show this safety data sheet to the doctor in attendance.

Skin Contact

Effects Unknown.
Symptoms Unknown.
First Aid Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

Eye Contact

Effects Unknown.
Symptoms Unknown.
First Aid Hold eye open and rinse slowly and gently with water for 15-20 min. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

Ingestion

Effects Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms Irritation.
First Aid Rinse mouth with water and drink plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance..

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable by WHMIS criteria. The product is not flammable.

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media None.

Hazardous Combustion Products None.

Specific Hazards Arising from the Chemical No information available

Protective Equipment and Precautions for Firefighters Self-contained breathing apparatus and standard turn-out apparel

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	For personal protection see section 8
Environmental Precautions	Should be contained.
Methods for cleaning up	Avoid formation of dust and aerosols. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Other Information	For personal protection see section 8.

7. HANDLING AND STORAGE

Handling	Avoid formation of dust and aerosols. Ensure adequate ventilation.
Storage	The product must be stored under the requirement for contained use of genetically modified micro-organisms. Temperature 0-25°C (32-77°F)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls	
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Additional handling and healthy/safety information is available upon request
Personal Protective Equipment	
Respiratory protection	In case of inadequate ventilation wear respiratory protection
Eye Protection	Wear safety glasses with side shields (or goggles)
Skin and body protection	No special technical protective measures are necessary
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	granulate
Color	Light brown
Odor	Slight fermentation odor

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pH	No data available
Melting point / freezing point	No data available
Boiling Point/Range	No data available
Evaporation rate	Not available
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not available
Vapor Pressure	No data available
Vapor density	Not available
Density (g/ml)	0,65
Solubility	Soluble
Partition Coefficient (n-octanol/water)	No data available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not relevant
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	None under normal processing
Conditions to Avoid	Avoid destruction of granulate
Incompatible materials	None
Hazardous Decomposition Products	None

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea

Information on toxicological effects (product level)

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

No information available

Acute toxicity	
LD50 Oral:	No information available
LD50 Dermal:	No information available
LC50 Inhalation:	No information available
LC50 Inhalation	No information available

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Delayed and immediate effects as well as chronic effects from short and long-term exposure
Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available
Reproductive toxicity No information available

Developmental Effects No information available
Teratogenic Effects No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration hazard No information available.

Information on toxicological effects (component level)
Other information No information available

12. ECOLOGICAL INFORMATION

Toxicity

Persistence/Degradability

Mobility in soil Not relevant

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes Should not be released into the environment.
Dispose of in accordance with local regulations.

In the United States of America, 10⁻⁶ reduction of viable yeast must be achieved..

Contaminated Packaging Dispose of wastes in an approved waste disposal facility.

14. TRANSPORT INFORMATION

Transport Regulations
Not regulated as Dangerous goods by DOT and TDG.

UN-No UN3245 (Excluding USA and CA)
Proper Shipping Name Genetically modified microorganisms *Saccharomyces cerevisiae* (Excluding USA and CA)

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Transport hazard class(es)
Packing Group
Reportable Quantity (RQ)
Marine Pollutant

9 (Excluding USA and CA)
Not applicable
Not applicable
Not applicable

International Regulations

IATA
IMDG

Classified but is exempted for transport as dangerous goods when special provision A47 is met.
Classified but exempted for transport as dangerous goods when special provision 219 (according to IMDG): P904 is met.

15. REGULATORY INFORMATION

USA, Federal Regulations

TSCA Inventory

All ingredients comply with TSCA

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

SARA 311/312 Hazardous Categorization

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

USA, State Regulations

California Proposition 65

This product does not contain any intentionally added Proposition 65 chemicals.

Canada

Canada - CEPA 1999

Compliant with the Canadian Environmental Protection Act 1999 (CEPA) and the New Substance Notification Regulations in Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by WHMIS 2015.

16. OTHER INFORMATION

Training advice

Contact Novozymes Customer Support Centre.

GHS-Classification

The GHS calculation method has been used for classification of this mixture.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Novozymes, it is the responsibility of the customer to determine the conditions of safe use of these products.

End of Safety Data Sheet

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