

SAFETY DATA SHEET

Revision date: 2019/04/17

Version No: 3

Compliant with 29 CFR §1910.1200 HCS 2012

Compliant with HPR WHMIS 2015

Deep Clean Kitchen 5X

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Deep Clean Kitchen 5X
Chemical Name.	Microbial preparation
Declared activity	Bacterial count
Use of the substance/preparation	Professional use. For use in cleaning applications.
Contact Manufacturer	NOVOZYMES BIOLOGICALS INC 5400 Corporate CircleSalem, VA 24153USA
Information Telephone Number	1-540-389-9361 (work hours)
Emergency Telephone Number	1-800-424-9300 (Chemtrec) 24 hours every day

2. HAZARDS IDENTIFICATION

Classification

Classification of the chemical in accordance with 29CFR §1910.1200

WHMIS Classification

Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1

Label elements

Danger

Hazard statements

H318 - Causes serious eye damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements - Prevention

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

P285 - In case of inadequate ventilation wear respiratory protection

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

Precautionary Statements - Response

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTRE or doctor/physician



Hazards not otherwise classified (HNOC)

Not Applicable

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Ethoxylated Alcohols, C9-C11	68439-46-3	10 - 30
Sodium Laureth Sulfate	9004-82-4	1 - 5
EDTA	64-02-8	1 - 5
Lipase (aep)	9001-62-1	0.1 - < 1

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off immediately with soap and plenty of water
Inhalation	Move to fresh air
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Slightly flammable according to HMIS criteria.
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	May cause allergic respiratory reaction.
Protective Equipment and Precautions for Firefighters	Self-contained breathing apparatus and standard turn-out apparel.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	For personal protection see section 8.
Environmental Precautions	Collect spillage.
Methods for cleaning up	Avoid formation of dust and aerosols. Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with a HEPA (High Efficiency Particulate Air) filter. Flush remainder carefully with plenty of water. Avoid splashing, high pressure washing or compressed air cleaning to avoid formation of aerosols. Ensure sufficient ventilation. Wash contaminated clothing.
Other Information	For personal protection see section 8.

7. HANDLING AND STORAGE

Handling	Avoid formation of dust and aerosols. Ensure adequate ventilation
Storage Temperature Storage Conditions	Keep tightly closed in a dry and cool place. 10-25 °C (50-77 °F). 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	DNEL Dermal Acute Local (Workers)	DMEL Inhalation Long term Local (Workers)
Lipase (aep)		DMEL = 60 ng/m ³

Derived Minimal Effect Level (DMEL)

When enzymes are used for spray products or hard surface cleaning, exposure of enzymes may exceed the safety level (15 ng/m³ DMEL). If you intend to develop such products, please contact Novozymes for further safety evaluation.

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
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Personal Protective Equipment

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications
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Eye Protection	Wear safety glasses with side shields (or goggles)
Skin and body protection	Wear protective gloves and protective clothing
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

Physical State	Liquid
Color	Off-white to light brown
Odor	Slight fermentation odor
Odor threshold	No information available
pH	Adjusted to the range where active enzyme is stable – typically pH 4 – 9
Boiling Point/Range	No information available
Melting Point/Range	No information available
Flash Point	> 100 °C
Freezing point 1	No information available
Flammability (solid, gas)	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Autoignition temperature	No information available
Vapor Pressure	No information available
Decomposition temperature	No information available
Vapor Density	No information available
Density (g/ml)	1.02
Evaporation rate	No information available
Solubility	None

Partition Coefficient (n-octanol/water) No information available
 Viscosity No data available

10. STABILITY AND REACTIVITY

Chemical stability
 Stable under recommended storage conditions

Conditions to Avoid
 None

Materials to avoid
 None

Hazardous Decomposition Products
 None

Possibility of hazardous reactions
 None

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Chemical name	Acute oral toxicity	Acute inhalation toxicity	Skin corrosion/irritation	Serious eye damage/eye irritation
Ethoxylated Alcohols, C9-C11	LD50: 300- 2000 mg/kg bw (OECD401)	No data available	Not irritating (OECD TG 404)	Risk of serious damage to eyes
Sodium Laureth Sulfate	LD50: > 2000 mg/kg bw (OECD TG 401, 420)		Not irritating (OECD TG 404)	Not irritating (OECD TG 405)
EDTA	LD50 Oral (rat): >3000 mg/kg bw (estimated)	No data available	Non-irritant	Risk of serious damage to eyes
Lipase (aep)	LD50: > 2000 mg/kg bw (OECD TG 401, 420)		Not irritating (OECD TG 404)	Not irritating (OECD TG 405)

Chemical name	Specific target organ toxicity (single exposure)	Genetic toxicity	Skin sensitization	Respiratory sensitization
Ethoxylated Alcohols, C9-C11	No data available	No mutagenic effect	non-sensitising	no data available
Sodium Laureth Sulfate	No data available	No mutagenic effect		Sensitizer (Human experience)
EDTA	No data available	No mutagenic effect	non-sensitising	non-sensitising
Lipase (aep)	No data available	No indication of mutagenic effects (OECD TG 471, 476)		Sensitizer (Human experience)

12. ECOLOGICAL INFORMATION

Toxicity

Chemical name	Daphnia, acute	Algae, acute	Fish, acute
Ethoxylated Alcohols, C9-C11	EC50 (48 hours): 5 - 10 mg/l	EC50 (72 hours): 10 - 100 mg/l	LC50: 1 - 10 mg/l
Sodium Laureth Sulfate	EC50 (48 hours): 31.7 - 457 mg aep/l (OECD TG 202)	ErC50 (72 hours): >= 5.2 mg aep/l (OECD TG 201)	LC50 (96 hours): 58.3 - 326.7 mg aep/l (OECD TG 203)
EDTA	LC50 > 100 mg/l	EC50 (72 hours): > 100 mg/l	LC50 > 100 mg/l
Lipase (aep)	EC50 (48 hours): >37.4 mg aep/l (OECD TG 202)	ErC50 (72 hours): > 18 mg aep/l (OECD TG 201)	LC50 (96 hours): >68.3 mg aep/l (OECD TG 203)

Persistence/Degradability

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Chemical name	Persistence and degradability	Partition coefficient (n-octanol/water)
Ethoxylated Alcohols, C9-C11	Readily biodegradable (OECD TG 301B)	LogPow: <0
Sodium Laureth Sulfate	Readily biodegradable (OECD 301)	LogPow: <0
EDTA	Not readily biodegradable	LogPow: <0
Lipase (aep)	Readily biodegradable (OECD 301)	LogPow: <0

Bioaccumulative Potential
Bioaccumulation is unlikely

Chemical name	Bioaccumulative Potential
Ethoxylated Alcohols, C9-C11	No data available
Sodium Laureth Sulfate	Does not bioaccumulate
EDTA	Low
Lipase (aep)	Does not bioaccumulate

Mobility in soil
Not relevant

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes
Dispose of in accordance with local regulations.

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

14. TRANSPORT INFORMATION

Transport Regulations
No dangerous goods according to transport regulations
No special precautions required

Transport hazard class(es)
not applicable

Packing group
not applicable

Environmental hazards
not applicable

15. REGULATORY INFORMATION

USA, Federal Regulations

TSCA Inventory

All ingredients are listed on TSCA inventory

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

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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 Proposition 65 chemicals

Canada

DSL/NDSL
Does not Comply
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	
Version No: End of Safety Data Sheet	3 / ANSI / 2019/05/31