

SAFETY DATA SHEET

Revision date: 2019/05/31

Version No: 3

Compliant with 29 CFR §1910.1200 HCS 2012

Compliant with HPR WHMIS 2015

Novo Mac 10X FF

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Novo Mac 10X FF
Chemical Name.	Microbial preparation
Declared activity	Bacterial count
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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Label elements

Danger

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary Statements - Prevention

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

Precautionary Statements - Response

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water



Hazards not otherwise classified (HNOC)

Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical name	CAS No	Weight-%
Benzenesulfonic acid, C10-16-alkyl derivs	68584-22-5	10 - 30
Ethoxylated Alcohols, C9-C11	68439-46-3	1 - 5
EDTA	64-02-8	1 - 5
Linalol	78-70-6	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.
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	Ensure adequate ventilation
Storage	Keep tightly closed in a dry and cool place.
Temperature	10-25 °C (50-77 °F).
Storage Conditions	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

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 insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications
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
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	Soluble
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

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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
Benzenesulfonic acid, C10-16-alkyl derivs	LD50: 300 -2000 mg/kg bw	No data available	Irritating	Irritating
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
EDTA	LD50 Oral (rat): >3000 mg/kg bw (estimated)	No data available	Non-irritant	Risk of serious damage to eyes
Linalol	LD50: > 2000 mg/kg bw (OECD TG 401, 420)		Irritating	Not irritating (OECD TG 405)

Chemical name	Specific target organ toxicity (single exposure)	Genetic toxicity	Skin sensitization	Respiratory sensitization
Benzenesulfonic acid, C10-16-alkyl derivs	No data available	No data available	No data available	No data available
Ethoxylated Alcohols, C9-C11	No data available	No mutagenic effect	non-sensitising	no data available
EDTA	No data available	No mutagenic effect	non-sensitising	non-sensitising
Linalol			Sensitizing	non-sensitising

12. ECOLOGICAL INFORMATION

Toxicity

Chemical name	Daphnia, acute	Algae, acute	Fish, acute
Benzenesulfonic acid, C10-16-alkyl derivs	No data available	No data available	No data available
Ethoxylated Alcohols, C9-C11	EC50 (48 hours): 5 - 10 mg/l	EC50 (72 hours): 10 - 100 mg/l	LC50: 1 - 10 mg/l
EDTA	LC50 > 100 mg/l	EC50 (72 hours): > 100 mg/l	LC50 > 100 mg/l
Linalol	No data available	No data available	No data available

Persistence/Degradability

Chemical name	Persistence and degradability	Partition coefficient (n-octanol/water)
Benzenesulfonic acid, C10-16-alkyl derivs	No data available	LogPow: <0
Ethoxylated Alcohols, C9-C11	Readily biodegradable (OECD TG 301B)	LogPow: <0
EDTA	Not readily biodegradable	LogPow: <0
Linalol	Readily biodegradable (OECD 301)	No Data Available

Bioaccumulative Potential

Bioaccumulation is unlikely

Chemical name	Bioaccumulative Potential
Benzenesulfonic acid, C10-16-alkyl derivs	Does not bioaccumulate

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Ethoxylated Alcohols, C9-C11	No data available
EDTA	Low
Linalol	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
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

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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.

End of Safety Data Sheet