

SAFETY DATA SHEET

Revision date: 2023/03/29

Version No: 3

Compliant with 29 CFR §1910.1200 HCS 2012

Compliant with HPR WHMIS 2015

Freshen Free 10X

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Freshen Free 10X
Chemical Name.	Microbial preparation
Use of the substance/preparation	Novozymes' enzyme preparations are biocatalysts used in a variety of industrial processes and in certain consumer products
Contact Manufacturer	NOVOZYMES BIOLOGICALS INC 5400 Corporate Circle Salem, VA 24153, USA
Information Telephone Number	1-540-389-9361 (work hours)
Emergency Telephone Number	1-800-424-9300 (Chemtrec) 24 hours every day

Initial Supplier Identifier
Données relatives au fournisseur

Univar Solutions Canada Ltd.

64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

2. HAZARDS IDENTIFICATION

Classification

Classification of the chemical in accordance with 29CFR §1910.1200

WHMIS Classification

Skin corrosion/irritation

Category 1 Sub-category A

Serious eye damage/eye irritation

Category 1

Skin sensitization

Category 1A

Label elements

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

Precautionary Statements - Prevention

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

Precautionary Statements - Response

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

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novozymes

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium Xylenesulphonate(SXS)	1300-72-7	10 - 30
Citric acid	77-92-9	5 - 10
Sodium hydroxide	1310-73-2	5 - 10
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	68439-50-9	1 - 5
Sodium nitrate	7631-99-4	1 - 5
Disodium Laureth sulfosuccinate	39354-45-5	1 - 5
Cocamidopropylamine Oxide	68155-09-9	1 - 5
1,2- Benzisothiazolin-3(2H)-one	2634-33-5	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	ACGIH TLV
Sodium hydroxide	Ceiling: 2 mg/m ³ Ceiling

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

Skin and body protection

General Hygiene Considerations

Environmental exposure controls

Wear safety glasses with side shields (or goggles)

Wear protective gloves and protective clothing

Handle in accordance with good industrial hygiene and safety practice

Local authorities should be advised if significant spillages cannot be contained

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Color

Odor

Odor threshold

pH

Boiling Point/Range

Melting Point/Range

Flash Point

Freezing point 1

Flammability (solid, gas)

Explosive Properties

Oxidizing Properties

Autoignition temperature

Vapor Pressure

Decomposition temperature

Vapor Density

Density (g/ml)

Evaporation rate

Liquid

Off-white to light brown

Slight fermentation odor

No information available

Adjusted to the range where active enzyme is stable – typically pH 4 – 9

No information available

No information available

> 100 °C

No information available

No information available

No information available

No information available

No information available

No information available

No information available

1,162

No information available

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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
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
Sodium Xylenesulphonate(SXS)	LD50: 300 -2000 mg/kg bw	No data available	Not available	Irritating
Citric acid	No Data Available	No data available	Non-irritant	Irritating
Sodium hydroxide	LD50: > 2000 mg/kg bw (OECD TG 401, 420)		Causes burns	Risk of serious damage to eyes
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	LD50: > 2000 mg/kg bw (OECD TG 401)	No data available	Not irritating (OECD TG 404)	Risk of serious damage to eyes
Sodium nitrate	LD50: > 2000 mg/kg bw (OECD TG 401)	Not available	Not irritating (OECD TG 404)	Irritating
Disodium Laureth sulfosuccinate	LD50: > 2000 mg/kg bw (OECD TG 401, 420)		Irritating	Irritating
Cocamidopropylamine Oxide	LD50: 300- 2000 mg/kg bw (OECD401)		Irritating	Risk of serious damage to eyes
1,2-Benzisothiazolin-3(2H)-one	Harmful if swallowed	No data available	Causes burns	Risk of serious damage to eyes

Chemical name	Specific target organ toxicity (single exposure)	Specific target organ systemic toxicity (repeated exposure)	Genetic toxicity	Skin sensitization	Respiratory sensitization
Sodium Xylenesulphonate(SXS)	No data available		No data available	non-sensitising	non-sensitising
Citric acid	No data available		No mutagenic effect	non-sensitising	non-sensitising
Sodium hydroxide					non-sensitising
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	No data available		no data available		non-sensitising
Sodium nitrate				non-sensitising	no data available
Disodium Laureth sulfosuccinate					non-sensitising
Cocamidopropylamine Oxide					non-sensitising
1,2-Benzisothiazolin-3(2H)-one	No data available		No mutagenic effect	Sensitizing	no data available

Carcinogenicity

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Contains sodium nitrate: Listed as probable human carcinogen by IARC (Group 2A)

12. ECOLOGICAL INFORMATION

Toxicity

Chemical name	Daphnia, acute	Algae, acute	Fish, acute
Sodium Xylenesulphonate(SXS)	EC50 (48h) > 1000 mg/l	EC50 (48h) > 230 mg/l	LC50 (96 hours): > 1000mg test substance/l (OECD TG 203)
Citric acid	LC50 > 100 mg/l	LC50 > 100 mg/l	LC50 > 100 mg/l
Sodium hydroxide	No data available	No data available	No data available
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	No data available	No data available	LC50: 1 - 10 mg/l
Sodium nitrate	EC50 (48h) > 1000 mg/l	EC50 (72 hours): > 100 mg/l	LC0 (96 hours): > 1000 mg/l
Disodium Laureth sulfosuccinate	No data available	No data available	No data available
Cocamidopropylamine Oxide	EC50 (48 hours): 1-10 mg/l	EC50 (72 hours): 1-10 mg/l	LC50: 1 - 10 mg/l
1,2- Benzisothiazolin-3(2H)-one	EC50 (48 hours): 2.94 mg/l (OECD TG 202)	ErC5 (72 hours): 0.11 mg/l (OECD TG 201)	2.18mg/l (OECD TG 203)

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Xylenesulphonate(SXS)	-	-	-	-
Citric acid	-	LC50: =1516mg/L (96h, <i>Lepomis macrochirus</i>)	EC50 = 14 mg/L 15 min	-
Sodium hydroxide	-	-	= 1 mg/m ³ LLV	= 1 mg/m ³ LLV
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	-	-	-	-
Sodium nitrate	-	-	-	-
Disodium Laureth sulfosuccinate	-	-	-	-
Cocamidopropylamine Oxide	-	-	-	-
1,2- Benzisothiazolin-3(2H)-one	-	-	-	-

Persistence/Degradability

Chemical name	Persistence and degradability	Partition coefficient (n-octanol/water)
Sodium Xylenesulphonate(SXS)	Readily biodegradable	No Data Available
Citric acid	Readily biodegradable (OECD TG 301B)	LogPow: <0
Sodium hydroxide	No data available	No Data Available
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	Readily biodegradable (OECD 301)	LogPow: <0
Sodium nitrate	Not applicable	LogPow: <0
Disodium Laureth sulfosuccinate	Inherently biodegradable	LogPow: <0
Cocamidopropylamine Oxide	Readily biodegradable (OECD 301)	LogPow: <0
1,2- Benzisothiazolin-3(2H)-one	Inherently biodegradable	LogPow: <0

Bioaccumulative Potential

Bioaccumulation is unlikely

Chemical name	Bioaccumulative Potential
Sodium Xylenesulphonate(SXS)	Not available
Citric acid	Does not bioaccumulate
Sodium hydroxide	Does not bioaccumulate
Alcohols C12-14, ethoxylated (> 2,5 - 5 EO)	Does not bioaccumulate
Sodium nitrate	Does not bioaccumulate
Disodium Laureth sulfosuccinate	No information available
Cocamidopropylamine Oxide	Does not bioaccumulate
1,2- Benzisothiazolin-3(2H)-one	Bioaccumulation is unlikely

Mobility in soil
Not relevant

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 intentionally added Proposition 65 chemicals.

Canada

DSL/NDSL

All components are listed either on the DSL or NDSL

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:
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