



SAFETY DATA SHEET

FORTIPREP MAX MEMBRANE CLEANER

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name FortiPrep Max Membrane Cleaner

Recommended use of the chemical and restrictions on use

Application High Performance Membrane Cleaner

Uses advised against No specific uses advised against are identified

Details of the supplier of the safety data sheet

Manufacturer FortiSystems
16601 Central Green Blvd. Ste. 100
Houston, TX 77032 USA
T: 833.840.2777

Emergency telephone number

Emergency telephone 832.922.2926

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not classified

Health hazards	Acute toxicity, oral	Not classified
	Acute toxicity, dermal	Not classified
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A

Label elements

Pictogram



Signal word

Warning

Hazard Statements

Causes skin irritation. Causes serious eye irritation.

Prevention

Wear safety glasses with side shields (or goggles). Wear protective gloves. Wash hands thoroughly after handling.

Response

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. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage

Store away from incompatible materials. Keep out of the reach of children.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

FortiPrep Max Membrane Cleaner

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None known.

3. Composition/information on ingredients

Mixtures

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides CAS number: 110615-47-9	1 - 3%
D-Glucopyranose, oligomeric, C8-10-alkyl glycosides CAS number: 68515-73-1	2 - 8%
Xylenesulphonate (SXS) CAS number: 1300-72-7	1 - 3%
Alcohols, C9-11, ethoxylated CAS number: 68439-46-3	1 - 3%
N,N-dimethyl 9-decenamide CAS number: 1356964-77-6	2 - 5%
Other materials below reportable quantities	78 - 93%

Composition comments The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200

4. First-aid measures

Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air. Get medical attention if symptoms develop or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Notes for the doctor	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

FortiPrep Max Membrane Cleaner

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Specific hazards During fire, gases hazardous to health may be formed.

Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and material for containment and cleaning up

Methods for cleaning up Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Usage precautions Wear appropriate personal protective equipment. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Do not mix with other chemicals. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep at temperatures between 4 and 49C. Keep out of the reach of children.

8. Exposure Controls/personal protection

Exposure controls

Protective equipment



Appropriate engineering controls Use general ventilation. Provide eyewash station.

Eye/face protection Wear safety glasses with side shields (or goggles).

FortiPrep Max Membrane Cleaner

Hand protection	Wear protective gloves.
Other skin and body protection	Avoid contact, wash off if contact occurs.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Respiratory protection	No personal respiratory protective equipment normally required.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear.
Form	Liquid
Color	Light Amber
Odor	Slightly sweet
Odor threshold	Not available.
pH	9.7 Concentrate, 9.2 (1:10 dilution).
Melting point	32 °F (0 °C)
Boiling point	212 °F (100 °C)
Flash point	None to boiling
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Specific Gravity	1.09
VOC (Weight %)	0
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Water-thin
Explosive properties	Not considered to be explosive.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.
Other information	No information required.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Do not mix with other chemicals.
Materials to avoid	Acids. Oxidizing agents.

FortiPrep Max Membrane Cleaner

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on toxicological effects

Components Dpecies Alcohols, Ethoxylated (CAS 68439-46-3

Acute toxicity – oral

Notes (oral LD₅₀) Rat 3488 mg/kg

Acute toxicity - dermal

Notes (dermal LD₅₀) Rabbit 2000 mg/kg, 24 hours Rat > 2000 mg/kg, 24 hours

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Rat > 1600 mg/m³, 4 hours aerosol

Rat > 100 mg/m³, 6 hours vapor

Rat > 1.6 mg/l, 4 hours aerosol

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Toxicological information Meets GS-37 requirements for skin and eye irritation at the as-used dilution.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on likely routes of exposure

Eye contact Causes serious eye irritation.

Skin contact Causes skin irritation.

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Persistence and degradability Based on the biodegradability data of the components, this material is expected to be biodegradable.

Bio-accumulative potential

Bio-accumulative potential This material does not contain chemicals that have known bioaccumulative potential.

Other adverse effects

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

FortiPrep Max Membrane Cleaner

Waste treatment methods

Disposal instruction	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA (Superfund) reportable quantity

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

SARA (302) Extremely hazardous substance

No

SARA (311/312) Hazardous chemical

No

SARA (313) TRI reporting

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

FortiPrep Max Membrane Cleaner

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Massachusetts "Right To Know" List

Not regulated.

Rhode Island "Right To Know" List

Not regulated.

Minnesota "Right To Know" List

Not regulated.

New Jersey "Right To Know" List

Not regulated.

Pennsylvania "Right To Know" List

Not regulated.

International Inventories

Country(s) or region	Inventory name	On inventory? (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Revision date	4/3/2017
Revision	2
Supersedes date	6/30/2016

FortiPrep Max Membrane Cleaner

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.