



SAFETY DATA SHEET

FortiClean

SECTION 1. IDENTIFICATION

Product Name	FortiClean
Chemical Family	General Purpose Detergent/Degreaser
Recommended Use/Restrictions	General Purpose Detergent/Degreaser
Manufacturer	FortiSystems 16601 Central Green Blvd., Ste. 100 Houston, TX 77032
24-Hour Emergency Phone	832.922.2926
Information Only	833.840.2777

SECTION 2. HAZARDS IDENTIFICATION

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

GHS Label Elements



Hazard pictograms:

Signal word: Warning

Hazard statements: Causes skin irritation. Causes serious eye irritation.

Precautionary statements:

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 reach of children.

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

Hazard(s) not otherwise classified (HNOC): None Known.
Supplemental information: None Known.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	% by Weight
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	1-5%
D-Glucopyranose, oligomeric, C8-10-alkyl glycosides	68515-73-1	2-10%
xylenesulphonate (SXS)	1300-72-7	2-10%
tetrasodium ethylenediaminetetraacetate	64-02-8	1-5%
Alcohols, C9-11, ethoxylated	68439-46-3	5-25%
N,N-dimethyl 9-decenamide	1356964-77-6	1-10%
Other materials below reportable quantities		50-70%

SECTION 4. FIRST AID MEASURES

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.

Skin Contact

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

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable Extinguishing Media None known.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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 materials for containment and 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.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

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:

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls

Use general ventilation. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand Protection

Wear protective gloves.

Skin Protection

Avoid contact, wash off if contact occurs.

Respiratory protection

No personal respiratory protective equipment normally required.

General hygiene considerations

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.

SECTION 9. 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/freezing point:	32°F (0°C)
Boiling point	212°F (100°C)
Flash point:	None to Boiling
Evaporation rate:	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available

Flammability limit – upper (%)	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Solubility(ies)	
Solubility (water)	Not available
Partition Coefficient: n-octanol/water	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Water-thin
Specific Gravity:	1.09
VOC (Weight %)	0

SECTION 10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical 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.

Incompatible materials

Acids. Oxidizing agents.

Hazardous Decomposition Products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data

Product	Test results
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Components Species Alcohols, Ethoxylated (CAS 68439-46-3)

Dermal Acute

LD50 Rabbit 2000 mg/kg, 24 hours

LD50 Rat > 2000 mg/kg, 24 hours

Inhalation

LC50 Rat > 1600 mg/m3, 4 hours aerosol

LC50 Rat > 100 mg/m3, 6 hours vapor

LC50 Rat > 1.6 mg/l, 4 hours aerosol

Oral LD50 Rat 3488 mg/kg

Information on likely routes of exposure:

Skin Contact	Causes skin irritation
Eye Contact	Causes serious eye irritation
Ingestion	Expected to be a low ingestion hazard
Inhalation	No adverse effects due to inhalation are expected

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.

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.

SECTION 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

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

Bioaccumulative potential

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

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.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal instructions**

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 residue/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.

SECTION 14. TRANSPORT INFORMATION

Non-Regulated

SECTION 15. REGULATORY INFORMATION**United States Federal Regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA)

US state regulations

Not regulated.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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.

SECTION 16. OTHER INFORMATION

Issue date 03-15-2016

Version # 01

The method of hazard communication for FortiSystems is comprised of Product Labels and Safety Data Sheets.

Contact: Product Safety Department

Telephone: 832.922.2926

Version Date: 06/30/2016

SDS Version: 1.1

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