

		Page: 1
SAFETY DATA SHEET		Revision Date: 02/11/2019
		Print Date: 2/11/2019
		SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142		Version: 1.8

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Drewplus™ L718
FOAM CONTROL AGENT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) RegulatoryRequestsNA@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
---	--

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P280 Wear eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Other hazards

None known.

		Page: 2
SAFETY DATA SHEET		Revision Date: 02/11/2019
		Print Date: 2/11/2019
		SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142		Version: 1.8

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ALKOXYLATED FATTY ALCOHOL	Trade Secret	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.
No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

		Page: 3
SAFETY DATA SHEET		Revision Date: 02/11/2019
		Print Date: 2/11/2019
		SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142		Version: 1.8

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO2)
formaldehyde
Hydrocarbons
Silicon oxides
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Container hazardous when empty.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

	Page: 4
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

place.
Electrical installations / working materials must comply with
the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Skin and body protection : Wear resistant gloves (consult your safety equipment supplier).
Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : off-white
Odour : No data available
Odour Threshold : No data available
pH : ca. 7
Melting point/freezing point : 0 °C

	Page: 5
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

Boiling point/boiling range : 100 °C

Flash point : Not applicable

Evaporation rate : > 1
Ethyl Ether

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : > 1
AIR=1

Relative density : 1 (25 °C)

Density : 1.000 g/cm³ (25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Incompatible materials : oxidizers

	Page: 6
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

Strong acids
Strong bases
Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO2)
Formaldehyde
Hydrocarbons
Silicon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

ALKOXYLATED FATTY ALCOHOL:

Acute oral toxicity : Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Skin corrosion/irritation

Not classified based on available information.

Components:

ALKOXYLATED FATTY ALCOHOL:

Result: Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

ALKOXYLATED FATTY ALCOHOL:

Result: Corrosive to eyes

	Page: 7
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 101.5 mg/l
Exposure time: 96 h
Test Type: static test

LC 50 (Pimephales promelas (fathead minnow)): 144.8 mg/l
Exposure time: 96 h
Test Type: static test

	Page: 8
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Ceriodaphnia dubia)): 67 mg/l
Exposure time: 48 h
Test Type: static test

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Persistence and degradability

Product:

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days
68,000 mg/l
Remarks: Based on a similar product formulation.

Chemical Oxygen Demand (COD) : 270,500 mg/l
Method: Chemical oxygen demand
Remarks: Based on a similar product formulation.

Components:

ALKOXYLATED FATTY ALCOHOL:

Biodegradability : Biodegradation: > 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
Remarks: Information given is based on data obtained from similar substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
	Version: 1.8
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	

Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

U.S. DOT - ROAD

	Not dangerous goods				
--	---------------------	--	--	--	--

U.S. DOT - RAIL

	Not dangerous goods				
--	---------------------	--	--	--	--

U.S. DOT - INLAND WATERWAYS

	Not dangerous goods				
--	---------------------	--	--	--	--

TRANSPORT CANADA - ROAD

	Not dangerous goods				
--	---------------------	--	--	--	--

TRANSPORT CANADA - RAIL

	Not dangerous goods				
--	---------------------	--	--	--	--

INTERNATIONAL MARITIME DANGEROUS GOODS

	Not dangerous goods				
--	---------------------	--	--	--	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

	Not dangerous goods				
--	---------------------	--	--	--	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

	Not dangerous goods				
--	---------------------	--	--	--	--

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

	Not dangerous goods				
--	---------------------	--	--	--	--

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

		Page: 10
SAFETY DATA SHEET		Revision Date: 02/11/2019
		Print Date: 2/11/2019
		SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142		Version: 1.8

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- TCSI : On the inventory, or in compliance with the inventory
- TSCA : On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

	Page: 11
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 02/11/2019

Full text of H-Statements

H302 : Harmful if swallowed.
H318 : Causes serious eye damage.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage

Further information

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect

	Page: 12
SAFETY DATA SHEET	Revision Date: 02/11/2019
	Print Date: 2/11/2019
	SDS Number: R0288260
Drewplus™ L718 FOAM CONTROL AGENT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 84142	Version: 1.8

Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

US / EN