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## **SECTION 1. IDENTIFICATION**

#### Product identifier

Trade name

 Drewfloc<sup>™</sup> 2410 polymer
 <sup>™</sup> 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)	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
RegulatoryRequestsNA@solenis.com	

# SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Serious eye damage	dan :	
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.

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# Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Components

Chemical name	CAS-No.	Classification	Concentration (%)
ALIPHATIC HYDROCARBON	Trade Secret	Flam. Liq. 4; H227 Asp. Tox. 1; H304	>= 20 - < 30
ALCOHOL ALKOXYLATES	Trade Secret	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

#### **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. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) Lung irritation confusion
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		irregular heartbeat Convulsions Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.
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
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) Nitrogen oxides (NOx) Hydrocarbons
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.

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If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for	:	Soak up with inert absorbent material (e.g. sand, silica gel,
containment and cleaning up		acid binder, universal binder, sawdust).
		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 place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	No decomposition if stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALIPHATIC HYDROCARBON	Trade Secret	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

Engineering measures : Provide sufficient mechanical ventilation to maintain exposu applicable) or below levels the

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.

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# Personal protective equipment

Hand protection

Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection :	Safety glasses
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	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	217 °F / 103 °C
Flash point	:	> 212 °F / > 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

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Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.03 g/cm3 (77 °F / 25 °C)
Bulk density	:	1.03 g/cm3 (68 °F / 20 °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	:	< 4,000 mPa.s (68 °F / 20 °C) > 7 mPa.s (104 °F / 40 °C)
Viscosity, kinematic		> 21 mm2/s (104 °F / 40 °C)
	•	
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.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents strong reducing agents
Hazardous decomposition products	:	Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrocarbons

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# SECTION 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Not classified based on available information.

# Components:

ALIPHATIC HYDROCARBO	N:		
Acute oral toxicity	:	LD 50 (Rat): > 5,000 mg/kg	
Acute inhalation toxicity	:	LC 50 (Rat, male and female): > 5.28 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.	
Acute dermal toxicity	:	LD 50 (Rabbit): > 2,000 mg/kg Assessment: No adverse effect has been observed in acute dermal toxicity tests.	
ALCOHOL ALKOXYLATES:			
Acute oral toxicity		LD 50 (Rat): 1,380 mg/kg	
Skin corrosion/irritation			
Not classified based on availa	able	information.	
Components:			
ALIPHATIC HYDROCARBO	N:		
Result	:	Mildly irritating to skin	
	:	Mildly irritating to skin	
Result ALCOHOL ALKOXYLATES: Result	:	Mildly irritating to skin Not irritating to skin	
ALCOHOL ALKOXYLATES: Result	:	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr	:	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr Causes serious eye damage.	:	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr Causes serious eye damage. Product:	:	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr Causes serious eye damage.	:	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr Causes serious eye damage. Product:	:	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr Causes serious eye damage. <u>Product:</u> Remarks	: itati :	Not irritating to skin	
ALCOHOL ALKOXYLATES: Result Serious eye damage/eye irr Causes serious eye damage. <u>Product:</u> Remarks <u>Components:</u>	: itati :	Not irritating to skin	

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## ALCOHOL ALKOXYLATES:

Result

: Risk of serious damage to eyes.

#### 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.

#### Components:

#### ALIPHATIC HYDROCARBON:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Further information**

#### Product:

Remarks

: No data available

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# **SECTION 12. ECOLOGICAL INFORMATION**

Foxicity to daphnia and other aquatic invertebrates Ecotoxicology Assessment Acute aquatic toxicity : Ac	C 50 (Pimephales promelas (fathead minnow)): 14.72 mg/l xposure time: 96 h est Type: static test est substance: Test conducted with a similar formulation ethod: OECD Test Guideline 203 LP: no C 50 (Leuciscus idus (Golden orfe)): 17.32 mg/l xposure time: 96 h est Type: static test est substance: Test conducted with a similar formulation ethod: OECD Test Guideline 203 LP: no C 50 (Daphnia magna (Water flea)): 0.58 mg/l xposure time: 48 h est Type: static test est substance: Test conducted with a similar formulation ethod: OECD Test Guideline 202 LP: no
Expression of the second secon	<ul> <li>xposure time: 96 h</li> <li>est Type: static test</li> <li>est substance: Test conducted with a similar formulation</li> <li>ethod: OECD Test Guideline 203</li> <li>LP: no</li> <li>C 50 (Daphnia magna (Water flea)): 0.58 mg/l</li> <li>xposure time: 48 h</li> <li>est Type: static test</li> <li>est substance: Test conducted with a similar formulation</li> <li>ethod: OECD Test Guideline 202</li> <li>LP: no</li> </ul>
Aquatic invertebrates Example aquatic invertebrates Te Te M G Ecotoxicology Assessment Acute aquatic toxicity : Ac	xposure time: 48 h est Type: static test est substance: Test conducted with a similar formulation ethod: OECD Test Guideline 202 LP: no
Acute aquatic toxicity : Ad	
	cute aquatic toxicity Category 1; Very toxic to aquatic life. ot classified based on available information.
_	
Components:	
ALIPHATIC HYDROCARBON:	
Ecotoxicology Assessment Acute aquatic toxicity : No	o toxicity at the limit of solubility
Chronic aquatic toxicity : No	o toxicity at the limit of solubility
E	C50 (Fish): > 1 - 10 mg/l xposure time: 96 h est Type: static test
Foxicity to daphnia and other : E0 aquatic invertebrates E3	C50 (Daphnia (water flea)): > 1 - 10 mg/l xposure time: 48 h est Type: static test
Foxicity to daphnia and other : E	C50 (Daphnia (water flea)): 0.17 mg/l

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aquatic invertebrates (Chronic toxicity)	Exposure time: 21 d
Ecotoxicology Assessment	
Chronic aquatic toxicity :	Harmful to aquatic life with long lasting effects.
Persistence and degradability	
Components:	
ALCOHOL ALKOXYLATES: Biodegradability :	Result: Readily biodegradable.
<b>Bioaccumulative potential</b> No data available	
Mobility in soil	
No data available	
Other adverse effects	
	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. 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. 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 Regulations

IATA-DGR

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Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

#### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### SECTION 15. REGULATORY INFORMATION

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ACRYLAMIDE	79-06-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### 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.
The components of this pro	duo	ct are reported in the following inventories:
DSL	:	This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.
AICS	:	On the inventory, or in compliance with the inventory
ENCS	:	Not 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

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TCSI	: On the inventory, or in compliance with the inventory
------	---

TSCA : All substances listed as active on the TSCA inventory

#### TSCA list

No substances are subject to a Significant New Use Rule.

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

#### SECTION 16. OTHER INFORMATION

Further information		
Revision Date	:	01/28/2020
Full text of H-Statements		
		Combustible liquid
H227	÷	Combustible liquid.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H318	:	Causes serious eye damage.
Full text of other abbreviation	ns	
Acute Tox.	:	Acute toxicity
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Flam. Liq.	:	Flammable liquids
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL		USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA, OSHA - TABLE Z-1 Limits for Air Contaminants -
	-	1910.1000
OSHA Z-1		USA. Occupational Exposure Limits (OSHA) - Table Z-1
••••	-	Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA		Time-weighted average concentration for up to a 10-hour
	•	workday during a 40-hour workweek
NIOSH REL / ST		STEL - 15-minute TWA exposure that should not be exceeded
NICONTREE / OT	•	at any time during a workday
OSHA P0 / TWA		
		8-hour time weighted average
OSHA Z-1 / TWA	•	8-hour time weighted average

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

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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 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

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.

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN