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SECTION 1. IDENTIFICATION

Product identifier

Trade name

: Drewfloc™ 442

polymer

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Combustible Dust

GHS label elements

Signal word

Warning

Hazard statements

: May form combustible dust concentrations in air.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice

No hazards which require special first aid measures.

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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

Remove contact lenses.

Protect unharmed eye.

If swallowed

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

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

irritation (nose, throat, airways)

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

Specific hazards during

firefighting

Organic dusts at sufficient concentration can form explosive

mixtures in air.

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)

Specific extinguishing

methods

Further information

Product is compatible with standard fire-fighting agents.

Standard procedure for chemical fires.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing dust.

Persons not wearing protective equipment should be excluded

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from area of spill until clean-up has been completed.

Comply with all applicable federal, state, and local regulations.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling

Avoid dust formation.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage

No smoking.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid

No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures

Provide appropriate exhaust ventilation at places where dust

is formed.

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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

Respiratory protection

No personal respiratory protective equipment normally

required.

Eye protection

Safety glasses

Skin and body protection

Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

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Hygiene measures

: Avoid breathing dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

powder

Colour

white

Odour

none

Odour Threshold

No data available

рΗ

2.5 - 4.5

Concentration: 5 g/l

Melting point/freezing point

No data available

Boiling point/boiling range

No data available

Flash point

Not applicable

Evaporation rate

: No data available

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

No data available

Relative vapour density

No data available

Relative density

: No data available

Density

: Approximate 0.72 g/cm3

Solubility(ies)

Water solubility

slightly soluble

Solubility in other solvents

No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature

No data available

Viscosity

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Viscosity, dynamic

510 mPa.s

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.

Conditions to avoid

Keep away from heat, flame, sparks and other ignition

sources.

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition

products

Carbon monoxide

Carbon dioxide (CO2) Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

LD 50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit

Result: Not irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Product dust may be irritating to eyes, skin and respiratory system.

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Species: Guinea pig

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 identified as a carcinogen or potential

carcinogen by OSHA.

NŤP

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 (Zebra danio (Danio rerio)): > 100 mg/l

Exposure time: 96 h

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Method: OECD Test Guideline 203

Toxicity to daphnia and other : aquatic invertebrates

EC 50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Ecotoxicology Assessment

Acute aquatic toxicity

Not classified based on available information.

Chronic aquatic toxicity

Not classified based on available information.

Persistence and degradability

Product:

Biodegradability

Biodegradation: 70 %

Exposure time: 28 d

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

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLITANT /
				J. Co.	LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods	

HIS DOT . PAH

0.5. DOT - IVAIL			
	Not dangerous goods		

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™ Trademark, Solenis or its subsidiaries or	affiliates,
registered in various countries 573501	
373301	
J.S. DOT - INLAND WATERWAYS	
Not dangerous goods	
RANSPORT CANADA - ROAD	
Not dangerous goods	
RANSPORT CANADA - RAIL	
Not dangerous goods	
NTERNATIONAL MARITIME DANGEROUS Not dangerous goods	S GOODS
Hot dangerous goods	
NTERNATIONAL AIR TRANSPORT ASSO	CIATION - CARGO
Not dangerous goods	
NTERNATIONAL AIR TRANSPORT ASSO	CIATION - PASSENGER
Not dangerous goods	
MEXICAN REGULATION FOR THE LAND	TRANSPORT OF HAZARDOUS MATERIALS AND
WASTES	
Not dangerous goods	
Not dangerous goods	
Not dangerous goods ORM = ORM-D, CBL = COMBUSTIBLE LI	QUID

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

SARA 311/312 Hazards

: Combustible Dust

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.

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California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

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

TSCA

On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL

AICS

On the inventory, or in compliance with the inventory

NZIOC

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 list

No substances are subject to a Significant New Use Rule.

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 02/01/2018

Full text of other abbreviations

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.

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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 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