

**SAFETY DATA SHEET**

Revision Date: 07/25/2023

Print Date: 10/28/2023

SDS Number: R0702077

Version: 1.7

Advantage™ NF1038 Defoaming Agent  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
423791

**SECTION 1. IDENTIFICATION****Product identifier**

Trade name

: Advantage™ NF1038 Defoaming Agent  
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registered in various countries**Recommended use of the chemical and restrictions on use**

Use of the Substance/Mixture : defoamer for paper industry

**Details of the supplier of the safety data sheet**  
Solenis Canada ULC  
942 Brant St.  
Burlington, ON L7R 3X8  
Canada  
  
EHSProductSafetyTeam@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 the Hazardous Products Regulations**

This material is not considered hazardous under WHMIS 2015.

**GHS label elements**

This material is not considered hazardous under WHMIS 2015.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical

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- 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.<br>Protect unharmed eye.  |
| If swallowed  | : | Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : | 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.<br><br>Water spray<br>Foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical  |
| Specific hazards during firefighting          | : | If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.<br><br>Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products                 | : | Carbon monoxide<br>Carbon dioxide (CO <sub>2</sub> )<br>undefined organics<br>formaldehyde<br>Hydrocarbons<br>Silicon oxides   |
| Specific extinguishing methods                | : | Product is compatible with standard fire-fighting agents.  |
| Further information                           | : | Standard procedure for chemical fires.   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.   |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.<br>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               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>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                         | : Smoking, eating and drinking should be prohibited in the application area.<br>For personal protection see section 8. |
| Conditions for safe storage                     | : Electrical installations / working materials must comply with the technological safety standards.                    |
| Materials to avoid                              | : No materials to be especially mentioned.   |
| Further information on storage stability        | : No decomposition if stored and applied as directed.<br><br>No decomposition if stored and applied as directed.       |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- |                             |  |
|-----------------------------|--|
| <b>Engineering measures</b> | : 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         | : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed |

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into eyes.

- Skin and body protection : Wear as appropriate:  
 Safety shoes  
 Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : opaque, off-white
- Odour : fatty odour
- Odour Threshold : No data available
- pH : 7.5 - 8.5
- Melting point/freezing point : 0 °C
- Boiling point/boiling range : > 100 °C
- Flash point : > 93.4 °C  
 Method: Pensky Martens closed cup
- Evaporation rate : < 1  
 n-Butyl Acetate
- Flammability (solid, gas) : No data available
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : < 1.33 hPa (20 °C)
- Relative vapour density : > 1  
 AIR=1
- Relative density : No data available

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Density : 0.989 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : emulsifiable

Solubility in other solvents : No data available

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

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 400 - 1,200 mPa.s ( 27 °C)

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Particle size : No data available

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**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 : halogens  
strong mineral acids  
Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
undefined organics  
Formaldehyde  
Hydrocarbons  
Silicon oxides

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

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### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks : Unlikely to cause eye irritation or injury.

### 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.

#### 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 : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: EPS 1/RM/9  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

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### Persistence and degradability

**Product:**

Biodegradability	:	Kinetic: 10 d: 43.2 % 28 d: 52 % Method: OECD Test Guideline 301D
Biochemical Oxygen Demand (BOD)	:	2.5 mg/l
Chemical Oxygen Demand (COD)	:	230 mg/l
BOD/COD	:	BOD/COD: 0.01 %

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

**Product:**

Additional ecological information	:	No data available
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## 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 Regulations

#### IATA-DGR

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.

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**National Regulations****TDG**

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.

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**SECTION 15. REGULATORY INFORMATION****The components of this product are reported in the following inventories:**

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
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

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

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**SECTION 16. OTHER INFORMATION****Further information**

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**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; IARC - International Agency for Research on Cancer;

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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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

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.

CA / EN