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# **SECTION 1. IDENTIFICATION**

# **Product identifier**

Trade name

Advantage<sup>™</sup> 831
Defoaming Agent
<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	Emergency telephone number 1-844-SOLENIS (844-765-3647)
500 Hercules Road Wilmington, Delaware 19808 United States of America (USA)	<b>Product Information</b> Contact your local Solenis representative
RegulatoryRequestsNA@solenis.com	

# SECTION 2. HAZARDS IDENTIFICATION

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### GHS label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

## Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

# Components

Chemical name	CAS-No.	Classification	Concentration (%)
HYDROTREATED PARAFFINIC DISTILLATE. DEWAXED	Trade Secret	Not a hazardous substance or mixture.	>= 80 - < 90
,			

Actual concentration is withheld as a trade secret

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# SECTION 4. FIRST AID MEASURES

General advice	:	No hazards which require special first aid measures.
lf 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	:	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
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. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon monoxide Carbon dioxide (CO2) formaldehyde Hydrocarbons
Specific extinguishing methods	:	Product is compatible with standard fire-fighting agents.
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Further information : Standard procedure for chemical fires.

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

# 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. 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). 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. 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.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HYDROTREATED PARAFFINIC DISTILLATE, DEWAXED	Trade Secret	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate	5 mg/m3	ACGIH

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matter)		
TWA (Mist)	5 mg/m3	OSHA P0
TWA (Mist)	5 mg/m3	NIOSH REL
ST (Mist)	10 mg/m3	NIOSH REL

Engineering measures :	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.
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# 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 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	: viscous
Colour	: light grey
Odour	: slight, oily
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: < 32 °F / < 0 °C
Boiling point/boiling range	: 694 - 840 °F / 368 - 449 °C
Flash point	: ca. 385 °F / 196 °C
Evaporation rate	: <1
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# n-Butyl Acetate

Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	6 %(V)
Lower explosion limit / Lower flammability limit	:	1 %(V)
Vapour pressure	:	< 0.001 hPa (68 °F / 20 °C)
Relative vapour density	:	> 1 AIR=1
Relative density	:	No data available
Density	:	0.91 g/cm3
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	500 - 2,250 mPa.s (77 °F / 25 °C)
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Viscosity, dynamic		

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	No decomposition if stor	red and applied as directed.
Chemical stability	Stable under recommen	ded storage conditions.
Possibility of hazardous reactions	Product will not undergo	hazardous polymerization.
Conditions to avoid	excessive heat	
Incompatible materials	Strong acids Strong oxidizing agents	

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Hazardous decomposition products

: Carbon monoxide Carbon dioxide (CO2) Hydrocarbons Formaldehyde

# SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

Not classified based on available information.

<u>Product:</u> Acute oral toxicity	:	LD50 (Rat): Expected > 2,000 mg/kg
Acute dermal toxicity	:	LD50 (Rat): Expected > 2,000 mg/kg

## Components:

# HYDROTREATED PARAFFINIC DISTILLATE, DEWAXED:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

## Components:

#### HYDROTREATED PARAFFINIC DISTILLATE, DEWAXED:

Result

: Slightly irritating to skin

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks

: Unlikely to cause eye irritation or injury.

## Components:

# HYDROTREATED PARAFFINIC DISTILLATE, DEWAXED:

Result

: Slightly irritating to eyes

#### Respiratory or skin sensitisation

# Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

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# Germ cell mutagenicity

Not classified based on available information.

# **Components:**

## HYDROTREATED PARAFFINIC DISTILLATE, DEWAXED:

:

Genotoxicity in vitro

Test Type: Ames test Result: negative

## 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.

#### Product:

No aspiration toxicity classification

#### **Further information**

# Product:

Remarks

: No data available

# SECTION 12. ECOLOGICAL INFORMATION

# Ecotoxicity

#### Product:

Toxicity to fish	:	LC50 (Fish): Expected > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Aquatic invertebrates): Expected > 100 mg/l

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		EC50 (Daphnia magna (Water flea)): 5,513 mg/l Exposure time: 48 h Test Type: static test Test substance: Test conducted with a similar formulation
Toxicity to microorganisms	:	EC10 (Bacteria): Expected > 100 mg/l
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Not classified based on available information.
Chronic aquatic toxicity	:	Not classified based on available information.
Persistence and degradabili	ity	
Product:		
Biodegradability	:	Biodegradation: < 70 % Exposure time: 28 d Method: OECD Test Guideline 301D Remarks: Not readily biodegradable.
Biochemical Oxygen Demand (BOD)	:	Biochemical oxygen demand within 5 days ca. 200 g/l Incubation time: 5 d
Chemical Oxygen Demand (COD)	:	ca. 2,000 g/l
<b>Bioaccumulative potential</b> No data available		
<b>Mobility in soil</b> No data available		
Other adverse effects		
Product:		
Additional ecological information	:	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.

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## **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.

# **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 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards	:	No SARA Hazards
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

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

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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
NZIOC	: On the inventory, or in compliance with the 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**

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#### Full text of other abbreviations

ACGIH NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) 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 at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA		8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; 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 -

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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.

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