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|---|--|---------------------------|
|  | | Page: 1 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

Conforms to EU Regulation 1907/2006/EC as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Praestapol™ FR147-EU
FLOCCULANT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Flocculating agent

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| 1.3 Details of the supplier of the safety data sheet Solenis Fascinatio Boulevard 522 2909 VA CAPELLE A/D IJSSEL Netherlands EHSProductSafetyTeam@solenis.com | 1.4 Emergency telephone number +1-302-502-0991 , or contact your local emergency telephone number at 112 Product Information Contact your local Solenis representative |
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :




Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

| | |
|---|---------------------------|
|  | Page: 2 |
| SAFETY DATA SHEET | Revision Date: 02.03.2018 |
| | Print Date: 22.03.2018 |
| | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | Version: 1.0 |

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components


| Chemical name | CAS-No. EC-No. Registration number | Classification | Concentration (% w/w) |
|--|--|--|--------------------------|
| Product may contain one or the other (or a mixture) of the oils mentioned, but overall 15-25%. : | | | |
| Alkanes, C16-20-iso- | Not Assigned 700-992-1 01-2119452551-44-xxxx | Asp. Tox. 1; H304 | >= 15 - < 25 |
| Butene, homopolymer | 9003-29-6 500-004-7 01-2119493067-32-xxxx | Asp. Tox. 1; H304 | >= 15 - < 25 |
| Ethoxylated alcohols (C12-18) | 68213-23-0 | Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 | >= 2,5 - < 3 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
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.

| | | |
|---|--|---------------------------|
|  | | Page: 3 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

- 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 : Immediately flush eye(s) with plenty of water.
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.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : 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)
- Risks : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media


- 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

5.2 Special hazards arising from the substance or mixture

- 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 (NO_x)

5.3 Advice for firefighters

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

| | | |
|---|--|---------------------------|
|  | | Page: 4 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : 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.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

Methods for 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.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.


SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

| | | |
|---|--|---------------------------|
|  | | Page: 5 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

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

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

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

Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties


9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light yellow

Odour : No data available

Odour Threshold : No data available

| | | |
|---|--|---------------------------|
|  | | Page: 6 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

pH : 3,2 - 4,2
Concentration: 1 %

Melting point/freezing point : No data available

Initial boiling point and boiling range : 103 °C

Flash point : > 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)
Water solubility : soluble, With a rise in viscosity

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 (20 °C)
Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Oxidizing properties : No data available

9.2 Other information

Self-ignition : No data available

| | | |
|---|--|---------------------------|
|  | | Page: 7 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Components:


Alkanes, C16-20-iso-:

Acute oral toxicity : LD50 (Rat, male and female): > 10.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Butene, homopolymer:

Acute oral toxicity : LD 50 (Rat): > 10.000 mg/kg

| | | |
|---|--|---------------------------|
|  | | Page: 8 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

Acute inhalation toxicity : LC 50 (Rat): > 19,71 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD 50 (Rabbit): > 2.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: Information given is based on data obtained from similar substances.

Ethoxylated alcohols (C12-18):

Acute oral toxicity : LD 50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

Alkanes, C16-20-iso-:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slightly irritating to skin

GLP: yes

Butene, homopolymer:

Species: Rabbit

Result: Slightly irritating to skin

Ethoxylated alcohols (C12-18):

Result: Not irritating to skin


Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: **Vapours may cause irritation to the eyes, respiratory system and the skin.**

Causes serious eye irritation.

| | | |
|---|--|---------------------------|
|  | | Page: 9 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

Components:

Alkanes, C16-20-iso-:

Species: Rabbit
 Method: OECD Test Guideline 405
 Result: Not irritating to eyes
 GLP: no

Butene, homopolymer:

Species: Rabbit
 Result: Not irritating to eyes

Ethoxylated alcohols (C12-18):

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Alkanes, C16-20-iso-:

Test Type: Maximisation Test
 Species: Guinea pig
 Method: OECD Test Guideline 406

Butene, homopolymer:

Remarks: Information given is based on data obtained from similar substances.


Germ cell mutagenicity

Not classified based on available information.

Components:

Alkanes, C16-20-iso-:

| | | |
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| Genotoxicity in vitro | : | Test Type: Ames test Species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes |
| | : | Test Type: In vitro mammalian cell gene mutation test Species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 |

| | | |
|---|--|---------------------------|
|  | | Page: 10 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

Result: negative

GLP: yes

: Test Type: Chromosome aberration test in vitro
 Species: Human lymphocytes
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative
 GLP: yes

Butene, homopolymer:

Genotoxicity in vitro : Test Type: Ames test
 Species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Result: negative

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.

Components:

Alkanes, C16-20-iso-:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available


SECTION 12: Ecological information

12.1 Toxicity

Components:

Alkanes, C16-20-iso-:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,026 mg/l
 Exposure time: 96 h

| | |
|--|---------------------------|
|  | Page: 11 |
| SAFETY DATA SHEET | Revision Date: 02.03.2018 |
| | Print Date: 22.03.2018 |
| | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | Version: 1.0 |

Test Type: semi-static test
 Method: Directive 67/548/EEC, Annex V, C.1.
 Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,077 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.2.
 Remarks: No toxicity at the limit of solubility

Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 0,021 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.3.
 GLP: yes
 Remarks: No toxicity at the limit of solubility

NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 0,021 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.3.
 GLP: yes
 Remarks: No toxicity at the limit of solubility


Toxicity to microorganisms : EC 50 (Pseudomonas putida): > 2,0 mg/l
 Exposure time: 5,25 h
 Test Type: Static
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Test Type: semi-static test
 Analytical monitoring: yes
 Method: OECD Test Guideline 211
 GLP: yes

Butene, homopolymer:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): >= 1,55 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
 Exposure time: 48 h
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 202
 Remarks: Information given is based on data obtained from similar substances.

| | | |
|---|--|---------------------------|
|  | | Page: 12 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 19,2 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 Remarks: No toxicity at the limit of solubility

Ethoxylated alcohols (C12-18):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,876 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Method: Directive 67/548/EEC, Annex V, C.1.
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 0,999 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,41 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity) : NOEC: 0,16 mg/l
 Exposure time: 10 d
 Species: Lepomis macrochirus (Bluegill sunfish)
 Test Type: flow-through test


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,77 mg/l
 End point: Reproduction Test
 Exposure time: 21 d
 Species: Water flea (Daphnia magna)
 Test Type: flow-through test
 Remarks: Information given is based on data obtained from similar substances.

12.2 Persistence and degradability

Components:

Alkanes, C16-20-iso-:

Biodegradability : Test Type: aerobic
 Inoculum: activated sludge
 Result: Not readily biodegradable.
 Biodegradation: 32 %

| | | |
|---|--|---------------------------|
|  | | Page: 13 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

Related to: Theoretical oxygen demand
 Exposure time: 28 d
 Remarks: **Not readily biodegradable.**
Inherently biodegradable.

Butene, homopolymer:

Biodegradability : Result: Readily biodegradable.

Ethoxylated alcohols (C12-18):

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 95 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

Components:

Alkanes, C16-20-iso-:

Partition coefficient: n-octanol/water : log Pow: 9,5 - 10,1 (26 °C)
 Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects


Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

| | | |
|---|--|---------------------------|
|  | | Page: 14 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

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

14.1 UN number

ADR: Not dangerous goods

RID: 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

14.2 UN proper shipping name

ADR: Not dangerous goods

RID: 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

14.3 Transport hazard class(es)

ADR: Not dangerous goods

RID: 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

14.4 Packing group

ADR: Not dangerous goods


RID: 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

14.5 Environmental hazards

| | | |
|---|--|---------------------------|
|  | | Page: 15 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

ADR: Not applicable

RID: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable


Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

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

DSL : All components of this product are on the Canadian DSL

| | | |
|---|--|---------------------------|
|  | | Page: 16 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
| | | Print Date: 22.03.2018 |
| | | SDS Number: 000000264437 |
| Praestapol™ FR147-EU FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869343 | | Version: 1.0 |

| | |
|-------|---|
| AICS | : On the inventory, or in compliance with the inventory |
| ENCS | : Not in compliance with the inventory |
| KECI | : Not in compliance with the inventory |
| PICCS | : Not in compliance with the inventory |
| IECSC | : On the inventory, or in compliance with the inventory |
| TCSI | : Not in compliance with the inventory |
| TSCA | : On TSCA Inventory |

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Revision Date: 02.03.2018

Classification of the mixture:

Eye Irrit. 2 H319

Classification procedure:

Calculation method


Full text of H-Statements

| | |
|------|--|
| H304 | : May be fatal if swallowed and enters airways. |
| H318 | : Causes serious eye damage. |
| H400 | : Very toxic to aquatic life. |
| H412 | : Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

| | |
|-----------------|----------------------------|
| Aquatic Acute | : Acute aquatic toxicity |
| Aquatic Chronic | : Chronic aquatic toxicity |
| Asp. Tox. | : Aspiration hazard |
| Eye Dam. | : Serious eye damage |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; GHS - Globally

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|  | | Page: 17 |
| SAFETY DATA SHEET | | Revision Date: 02.03.2018 |
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Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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