

 Strong bonds. Trusted solutions.	Page: 1
SAFETY DATA SHEET	Revision Date: 07/13/2020
	Print Date: 03/09/2021
	SDS Number: R1201164
Praestol™ K 148 L-VA FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559	Version: 1.0

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Praestol™ K 148 L-VA
FLOCCULANT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Drilling fluid additive
Flocculating agent

Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) RegulatoryRequestsNA@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

Precautionary statements : **Response:**
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
Storage:
P405 Store locked up.

	Page: 2
SAFETY DATA SHEET	Revision Date: 07/13/2020
	Print Date: 03/09/2021
	SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559	Version: 1.0

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Classification	Concentration (%)
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 20 - < 30
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-47-8	Asp. Tox. 1; H304	>= 10 - < 15
ETHOXYLATED ALCOHOL SURFACTANT	68551-13-3	Skin Irrit. 2; H315 Eye Irrit. 2A; H319	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
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 : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

		Page: 3
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

- 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 : 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)
May be fatal if swallowed and enters 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
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- 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)
Nitrogen oxides (NO_x)
toxic monomer fumes
- 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

		Page: 4
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

- 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.
If the product contaminates rivers and lakes or drains inform respective authorities.
- 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 : 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.
- 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.
Observe label precautions.
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
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-1

	Page: 5
SAFETY DATA SHEET	Revision Date: 07/13/2020
	Print Date: 03/09/2021
	SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559	Version: 1.0

		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-47-8	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 (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

Hand protection

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

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 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 : off-white

		Page: 6
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

Odour : hydrocarbon-like
 Odour Threshold : No applicable information available.
 No data available
 pH : 3.9 - 4.4 (77 °F / 25 °C)
 Melting point/freezing point : No data available
 Boiling point/boiling range : > 212 °F / > 100 °C
 Flash point : > 199 °F / > 93 °C
 Evaporation rate : No data available
 Flammability (solid, gas) : not highly flammable
 Method: derived from flash point
 Self-ignition : not self-igniting
 Upper explosion limit / Upper flammability limit : No data available
 Lower explosion limit / Lower flammability limit : No data available
 Vapour pressure : The product has not been tested.
 Relative vapour density : No data available
 Relative density : No data available
 Density : ca. 1.1 g/cm³ (68 °F / 20 °C)
 Solubility(ies)
 Water solubility : dispersible
 Solubility in other solvents : No data available
 No data available
 Partition coefficient: n-octanol/water : No data available
 Decomposition temperature : No data available
 Viscosity
 Viscosity, dynamic : not determined
 Viscosity, kinematic : 454 mm²/s

		Page: 7
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

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 : excessive heat
Heat, flames and sparks.

Incompatible materials : Strong acids
Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
No hazardous decomposition products are known.
Hydrocarbons
toxic monomer fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

Acute oral toxicity : LD 50 (Rat): > 5 g/kg

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.
Remarks: No mortality observed at this dose.

	Page: 8
SAFETY DATA SHEET	Revision Date: 07/13/2020
	Print Date: 03/09/2021
	SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559	Version: 1.0

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

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

Acute inhalation toxicity : LC 50 (Rat): > 4,951 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

ETHOXYLATED ALCOHOL SURFACTANT:

Acute oral toxicity : LD L0 (Rat): 3,200 mg/kg

Acute dermal toxicity : LD Lo (Rabbit): 790 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species : Rabbit
 Result : Not irritating to skin

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Result : Mildly irritating to skin

ETHOXYLATED ALCOHOL SURFACTANT:

Serious eye damage/eye irritation

Not classified based on available information.

Product:

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

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species : Rabbit
 Result : Mildly irritating to eyes

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Result : Mildly irritating to eyes

ETHOXYLATED ALCOHOL SURFACTANT:

		Page: 9
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTA:

Species : Guinea pig
 Method : OECD Test Guideline 406

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

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Solvents may degrease the skin.

		Page: 10
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Daphnia (water flea)): 10 mg/l
Exposure time: 21 d
Test Type: semi-static test
Test substance: WAF
Method: OECD Test Guideline 211

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: WAF
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other : EL50 (Water flea (Daphnia magna)): > 1,000 mg/l

	Page: 11
SAFETY DATA SHEET	Revision Date: 07/13/2020
	Print Date: 03/09/2021
	SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559	Version: 1.0

aquatic invertebrates

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

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

ETHOXYLATED ALCOHOL SURFACTANT:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1

Persistence and degradability

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

Biodegradability : Result: Inherently biodegradable.
 Biodegradation: 31 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 67.6 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F
 Remarks: Information given is based on data obtained from similar substances.

ETHOXYLATED ALCOHOL SURFACTANT:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: > 60 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHA:

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

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Partition coefficient: n-octanol/water : log Pow: 3 - 6

		Page: 12
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto™ K 148 L-VA FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

Mobility in soil

No data available

Other adverse effects

Product:

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

Components:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

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.

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.

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

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

		Page: 13
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto™ K 148 L-VA FLOCCULANT ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

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 : Aspiration hazard

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

WARNING! This product contains a chemical known to the State of California to cause cancer.
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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

NZIoC : Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AICS : Not in compliance with the inventory

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

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

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

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

TCSI : Not 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.

	Page: 14
SAFETY DATA SHEET	Revision Date: 07/13/2020
	Print Date: 03/09/2021
	SDS Number: R1201164
Praesto TM K 148 L-VA FLOCCULANT TM Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559	Version: 1.0

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 07/13/2020

Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation.

Full text of other abbreviations

Asp. Tox. : Aspiration hazard
 Eye Irrit. : Eye irritation
 Skin Irrit. : Skin irritation
 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 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 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;

		Page: 15
SAFETY DATA SHEET		Revision Date: 07/13/2020
		Print Date: 03/09/2021
		SDS Number: R1201164
Praesto [™] K 148 L-VA FLOCCULANT [™] Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 880559		Version: 1.0

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