		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 11/11/2015
		SDS Number: 000000111494
Praestol™ 186 KH polymer ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 656873		Version: 1.2

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Praestol™ 186 KH  
polymer  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries

### Recommended use of the chemical and restrictions on use


<b>Details of the supplier of the safety data sheet</b> Solenis LLC 500 Hercules Road Wilmington Delaware 19808 United States of America  RegulatoryRequestsNA@solenis.com	<b>Emergency telephone number</b> 1-844-SOLENIS (844-765-3647) / 606-329-5705  <b>Product Information</b> 1-844-SOLENIS (844-765-3647)
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Acute toxicity (Oral) : Category 4

### GHS Label element

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Harmful if swallowed.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
**Response:**  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician  
if you feel unwell. Rinse mouth.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal  
plant.

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
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registered in various countries  
656873

**Other hazards**

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 81.5 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 81.5 %

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

Substance / Mixture : Mixture

**Hazardous components**

No hazardous ingredients

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**SECTION 4. 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.
- In case of skin contact : If on skin, rinse well with water.  
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 : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth with water.  
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)  
Harmful if swallowed.

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 656873

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 : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Ammonia  
 carbon dioxide and carbon monoxide  
 hydrogen chloride  
 nitrogen oxides (NOx)

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**

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.

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 : Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
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 656873

**SECTION 7. HANDLING AND STORAGE**

- 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.  
 Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

- 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 as appropriate:  
 impervious clothing  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.  
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures

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

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
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656873

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid
Colour	: amber
Odour	: amine-like
Odour Threshold	: No data available
pH	: Approximate 5.5
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 212 °F / 100 °C
Flash point	: Not applicable
Evaporation rate	: > 1 butyl acetate=1
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	: 1.1
Density	: 1.1 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
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 registered in various countries  
 656873

**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  
 Protect from frost.  
 Heat, flames and sparks.  
 Exposure to moisture
- Incompatible materials : aluminum  
 Copper  
 Iron  
 strong mineral acids  
 Strong oxidizing agents
- Hazardous decomposition products : carbon dioxide and carbon monoxide  
 hydrogen chloride  
 Nitrogen oxides (NOx)  
 Ammonia

**SECTION 11. TOXICOLOGICAL INFORMATION**

- Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

**Acute toxicity**

Harmful if swallowed.

**Product:**

- Acute oral toxicity : LD 50 (Rat): > 2,000 mg/kg  
 Remarks: The toxicological data has been taken from products of similar composition.

**Skin corrosion/irritation**


Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

	Page: 7
<b>SAFETY DATA SHEET</b>	Revision Date: 05/22/2015
	Print Date: 11/11/2015
	SDS Number: 000000111494
Praestol™ 186 KH polymer ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 656873	Version: 1.2

**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

**Carcinogenicity:**

**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.

**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.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : LC 50: > 10 mg/l  
Exposure time: 96 h  
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

Toxicity to daphnia and other aquatic invertebrates : EC 50: > 10 mg/l  
Exposure time: 48 h  
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

**Further information**

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 81.5 %

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

 Praestol™ 186 KH polymer  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
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 656873

**Persistence and degradability**
**Product:**

 Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand  
 44,000 mg/l

 Chemical Oxygen Demand (COD) : 250,000 mg/l  
 Remarks: Chemical Oxygen Demand (COD)

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

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

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

 General advice : 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.

Dispose of in accordance with all applicable local, state and federal regulations.

 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 transport regulations**
**REGULATION**

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

**U.S. DOT - ROAD**



**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries  
 656873

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

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

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods

**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
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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.

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 11/11/2015

SDS Number: 000000111494

Version: 1.2

Praestol™ 186 KH polymer  
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656873

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**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 313 Component(s)** : 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.  
**SARA 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:**

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

PHIL : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

KECL : Not in compliance with the inventory

ENCS : Not in compliance with the inventory


AUSTR : Not in compliance with the inventory

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

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

**Inventories**

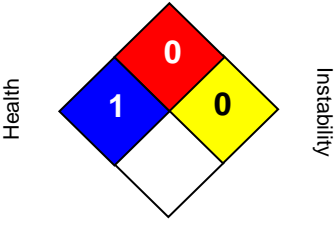
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 11/11/2015
		SDS Number: 000000111494
Praestol™ 186 KH polymer ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 656873		Version: 1.2

## SECTION 16. OTHER INFORMATION

### Further information

Revision Date: 05/22/2015

<b>NFPA:</b>	<b>HMIS III:</b>						
<p>Flammability</p>  <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td><b>HEALTH</b></td> <td><b>1</b></td> </tr> <tr> <td><b>FLAMMABILITY</b></td> <td><b>0</b></td> </tr> <tr> <td><b>PHYSICAL HAZARD</b></td> <td><b>0</b></td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>0</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>1</b>						
<b>FLAMMABILITY</b>	<b>0</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

### Full text of H-Statements referred to under sections 2 and 3.

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 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.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade


GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

	Page: 12
<b>SAFETY DATA SHEET</b>	Revision Date: 05/22/2015
	Print Date: 11/11/2015
	SDS Number: 000000111494
Praestol™ 186 KH polymer ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 656873	Version: 1.2

ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System