

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015**SECTION 1. IDENTIFICATION**

Product name : PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)  
Product code : 00010049982

**Manufacturer or supplier's details**

Company name of supplier : Genentech, Inc.

Address : 1 DNA Way  
South San Francisco, CA 94080  
USA

Telephone : 001-(650) 225-1000

E-mail address : info.sds@roche.com

Emergency telephone

Emergency telephone : US Chemtrec phone (800)-424-9300  
number**Recommended use of the chemical and restrictions on use**

Recommended use : Formulated pharmaceutical active substance

Restrictions on use : For professional users only.

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
PEG-Interferon-alpha-2a	198153-51-4	0.036
Benzenemethanol	100-51-6	1.0
Sodium chloride (NaCl)	7647-14-5	0.8
Sodium acetate trihydrate	6131-90-4	< 0.3
Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.	9005-65-6	< 0.01
Water	7732-18-5	> 97.0

## PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)

Version  
2.0

Revision Date:  
04-20-2021

Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

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### SECTION 4. FIRST AID MEASURES

- General advice : Do not leave the victim unattended.
- If inhaled : Move to 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.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire fighting : No information available.
- Hazardous combustion products : Carbon oxides
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**
Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

- Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : See label, package insert or internal guidelines
- Materials to avoid : No materials to be especially mentioned.
- Storage temperature : Protected from heat and light
- Further information on storage stability : No decomposition if stored and applied as directed.
- Packaging material : Suitable material: Stainless steel, glass, Prefilled syringes, Autoinjector

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzenemethanol	100-51-6	TWA	10 ppm	US WEEL
PEG-Interferon-alpha-2a	198153-51-4	IOEL	1,2 microgram per cubic meter	Roche Industrial Hygiene Committee (RIHC)

**Predicted No Effect Concentration (PNEC):**

Substance name	Environmental Compartment	Value
PEG-Interferon-alpha-2a	Surface waters	300 µg/l
Remarks:		
Based on acute data		

- Engineering measures** : No data available

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

In case of contact through splashing:

Material : Nitrile rubber  
Break through time : > 30 min  
Glove thickness : > 0.11 mm

In case of full contact:

Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : > 0.4 mm

Remarks : Wear appropriate protective gloves to prevent skin contact.  
Replace torn or punctured gloves promptly.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aqueous solution, sterile

Color : colorless, light yellow

Odor : No data available

Odor Threshold : No data available

pH : 5.8 - 6.2

Melting point/range : No data available

Boiling point/boiling range : No data available

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**

Version 2.0                      Revision Date: 04-20-2021                      Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

Relative vapor density            : No data available  
Relative density                 : No data available  
Density                            : 1.004 g/cm<sup>3</sup>  
Solubility(ies)  
    Water solubility               : completely miscible  
    Solubility in other solvents   : No data available  
Partition coefficient: n-  
octanol/water                    : No data available  
Autoignition temperature       : No data available  
Decomposition temperature     : No data available  
Viscosity  
    Viscosity, dynamic            : No data available  
    Viscosity, kinematic         : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity                        : No dangerous reaction known under conditions of normal use.  
Chemical stability                : Stable under normal conditions.  
Possibility of hazardous  
reactions                         : Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
Conditions to avoid              : No data available  
Incompatible materials          : No data available  
Hazardous decomposition  
products                         : No data available

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

Not classified based on available information.

**Product:**

Acute oral toxicity                : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method  
Acute dermal toxicity             : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:****PEG-Interferon-alpha-2a:**

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

Acute toxicity (other routes of administration) : No-observed-effect level (cynomolgus monkey): 0.3 mg/kg  
Application Route: i.v.

No-observed-effect level (cynomolgus monkey): 6.75 mg/kg  
Application Route: s.c.

**Benzenemethanol:**

Acute oral toxicity : LD50 Oral (Rat): 1,230 mg/kg  
LD50 Oral (Mouse): 1,360 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4,178 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit): 2,000 mg/kg

**Sodium chloride (NaCl):**

Acute oral toxicity : LD50 Oral (Rat): 3,000 mg/kg  
LD50 Oral (Mouse): 4,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgment

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10,000 mg/kg

**Sodium acetate trihydrate:**

Acute oral toxicity : LD50 (Rat): 3,530 mg/kg  
LD50 (Mouse): 4,960 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 30 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Acute oral toxicity : LD50 Oral (Rat): 63,840 mg/kg

**Skin corrosion/irritation**

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**Components:****Benzenemethanol:**

Remarks : This information is not available.

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015**Sodium chloride (NaCl):**Species : Rabbit  
Result : No skin irritation**Sodium acetate trihydrate:**

Remarks : This information is not available.

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**Species : Rabbit  
Exposure time : 72 h  
Method : Draize Test  
Result : No skin irritation  
GLP : No information available.  
Test substance : anhydrous substance**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Benzenemethanol:**

Remarks : This information is not available.

**Sodium chloride (NaCl):**Species : Rabbit  
Result : No eye irritation**Sodium acetate trihydrate:**

Remarks : This information is not available.

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**Species : Rabbit  
Result : No eye irritation  
Exposure time : 168 h  
Method : Draize Test  
GLP : No information available.  
Test substance : anhydrous substance**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Sodium chloride (NaCl):**

Remarks : This information is not available.

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**
Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015
**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Species : Humans  
 Method : see user defined free text  
 Result : Not a skin sensitizer.  
 GLP : No information available.  
 Test substance : anhydrous substance

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**
**PEG-Interferon-alpha-2a:**

Genotoxicity in vitro : Result: negative  
 Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects  
 Remarks: Expert judgment

In vivo tests did not show mutagenic effects  
 Remarks: Expert judgment

**Sodium chloride (NaCl):**

Genotoxicity in vitro : Test Type: Micronucleus test  
 Test system: mammalian cells  
 Method: Mutagenicity (micronucleus test)  
 Result: negative

Test Type: Ames test  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:**
**Benzenemethanol:**

Remarks : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Remarks : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**IARC** No ingredient 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 ingredient of this product present at levels greater than or equal to 0.1% is



**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**Components:****PEG-Interferon-alpha-2a:**Reproductive toxicity - Assessment : Presumed human reproductive toxicant  
Remarks: Expert judgmentMay damage fertility. May damage the unborn child.  
Remarks: Expert judgment**STOT-single exposure**

Not classified based on available information.

**Components:****Benzenemethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Sodium acetate trihydrate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**

Not classified based on available information.

**Components:****Benzenemethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Sodium acetate trihydrate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015**Components:****Benzenemethanol:**

No data available

**Sodium acetate trihydrate:**

No data available

**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****PEG-Interferon-alpha-2a:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 300 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

NOEC (Cyprinus carpio (Carp)): 300 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): > 300 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
GLP: yes

NOEC (Daphnia magna (Water flea)): 300 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to microorganisms : (activated sludge): 3.3 mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes  
Remarks: Barely inhibitory on aerobic bacterial respiration

**Benzenemethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**

 Version  
 2.0

 Revision Date:  
 04-20-2021

 Date of last issue: 10-21-2020  
 Date of first issue: 12-05-2015

 LC50 (Oncorhynchus mykiss (rainbow trout)): 315 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

 LC50 (Lepomis macrochirus (Bluegill sunfish)): 10 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 400 mg/l  
 Exposure time: 24 h

 EC0 (Daphnia magna (Water flea)): 369 mg/l  
 Exposure time: 48 h

 Toxicity to algae/aquatic plants : EC0 (Desmodesmus subspicatus (green algae)): 640 mg/l  
 Exposure time: 96 h

 Toxicity to microorganisms : EC10 (Pseudomonas putida): 658 mg/l  
 Exposure time: 48 h

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

**Sodium chloride (NaCl):**

 Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7,650 mg/l  
 Exposure time: 96 h

 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,000 mg/l  
 Exposure time: 48 h

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

**Sodium acetate trihydrate:**

 Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 5,000 mg/l  
 Exposure time: 24 h

LC50 (Leuciscus idus (Golden orfe)): &gt; 1,000 mg/l

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

Exposure time: 48 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
aquatic invertebrates Exposure time: 48 hToxicity to microorganisms : EC50 (Pseudomonas putida): 7,200 mg/l  
Exposure time: 18 hEC50 (Photobacterium phosphoreum): 22,500 mg/l  
Exposure time: 0.25 h**Ecotoxicology Assessment**

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to : No data available  
the environment**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 471 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: No information available.Toxicity to daphnia and other : LC50 (Mysidopsis bahia (opossum shrimp)): 165 mg/l  
aquatic invertebrates Exposure time: 96 h  
Test Type: static test  
GLP: No information available.**Ecotoxicology Assessment**Acute aquatic toxicity : This product has no known ecotoxicological effects.  
Remarks: Expert judgmentChronic aquatic toxicity : This product has no known ecotoxicological effects.  
Remarks: Expert judgmentToxicity Data on Soil : Not expected to adsorb on soil.  
Remarks: Expert judgmentOther organisms relevant to : No data available  
the environment Remarks: Expert judgment**Persistence and degradability****Components:****PEG-Interferon-alpha-2a:**Biodegradability : Concentration: 3.3 mg/l  
Result: Not readily biodegradable.  
Biodegradation: <= 22 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015**Benzenemethanol:**Biodegradability : Biodegradation: 100 %  
Exposure time: 2 d  
Method: OECD Test Guideline 302B**Sodium chloride (NaCl):**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

**Sodium acetate trihydrate:**Biodegradability : Biodegradation: 99 %  
Exposure time: 28 d**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**Biodegradability : Result: Biodegradable  
Biodegradation: 64 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B  
GLP: yes**Bioaccumulative potential****Components:****PEG-Interferon-alpha-2a:**Partition coefficient: n-  
octanol/water : Remarks: No data available**Benzenemethanol:**Partition coefficient: n-  
octanol/water : log Pow: 1.10**Sodium chloride (NaCl):**Partition coefficient: n-  
octanol/water : Remarks: No data available**Sodium acetate trihydrate:**Partition coefficient: n-  
octanol/water : log Pow: -4.22**Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**Partition coefficient: n-  
octanol/water : Remarks: No data available**Water:**Partition coefficient: n-  
octanol/water : Remarks: No data available

## PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)

Version  
2.0

Revision Date:  
04-20-2021

Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

#### Components:

##### **Benzenemethanol:**

Additional ecological : No data available  
information

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Can be disposed as waste water, when in compliance with  
local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste  
handling site for recycling or disposal.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### **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

### Domestic regulation

#### **49 CFR**

Not regulated as a dangerous good

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**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.**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Benzenemethanol	100-51-6	>= 1 - < 5 %
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**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

**US State Regulations****Massachusetts Right To Know**

Benzenemethanol	100-51-6
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**Pennsylvania Right To Know**

Water	7732-18-5
Benzenemethanol	100-51-6

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**The ingredients of this product are reported in the following inventories:**

**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**

Version  
2.0

Revision Date:  
04-20-2021

Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
PEG-Interferon-alpha-2a
- AICS : Not in compliance with the inventory
- NZIoC : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- TCSI : Not in compliance with the inventory
- TSCA : Product contains substance(s) not listed on TSCA inventory.

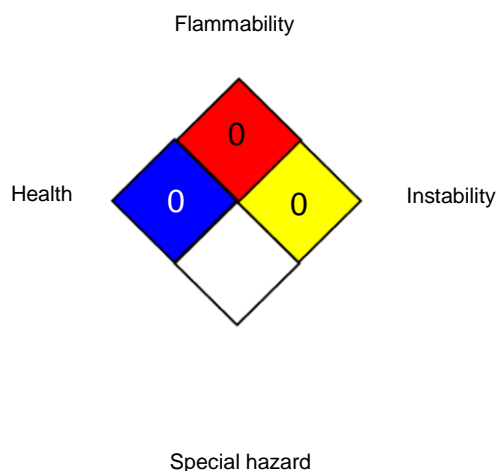
**TSCA list**

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**

**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>	/	0
<b>FLAMMABILITY</b>	0	
<b>PHYSICAL HAZARD</b>	0	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**



**PEGASYS(R) Prefilled Syringe (180 mcg/0.5 ml)**Version  
2.0Revision Date:  
04-20-2021Date of last issue: 10-21-2020  
Date of first issue: 12-05-2015

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
US WEEL / TWA : 8-hr TWA

AICS - Australian Inventory of Chemical Substances; 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 - 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

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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.

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