



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PYLARIFY (piflufolastat F18) injection

CAS Number: 1423758-00-2

Product Uses: diagnostic radiopharmaceutical

COMPANY IDENTIFICATION: Progenics Pharmaceuticals, Inc., a Lantheus company.

c/o Lantheus Holdings 331 Treble Cove Road Billerica, MA 01862 United States of America

1-800-299-3431

EMERGENCY PHONE: CHEMTREC 1-800-424-9300.

For International Transportation Emergencies

Call CHEMTREC @ 1-703-527-3887.

Collect Calls are accepted

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Appearance Clear liquid

Precautionary Measures PYLARIFY (piflufolastat F18) injection is a diagnostic

radiopharmaceutical for intravenous use only. It emits radiation and must be handled with appropriate safety measures to minimize radiation exposure to household contacts consistent with institutional good radiation safety practices and patient

management procedures.

GHS Classification This chemical is not considered hazardous by 2012 OSHA

Hazard Communication Standard (29 CFR 1910.1200)

GHS Label Elements None required





SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Active Substance Piflufolastat F18

CAS Number: 1423758-00-2

Component Concentration CAS

F-18 NA NA

Piflufolastat ≤ 0.01 µg/mCi at calibration 1423758-00-2

time per milliliter

Ethanol ≤ 78.9 mg/mL 64-17-5

Saline Balance 7647-14-5

SECTION 4: FIRST AID MEASURES

General Information

Eye contact Immediately irrigate the eyes with copious amount of water for at least

15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, seek medical attention. Notify

Radiation Safety Officer immediately.

Skin contact Immediately wash skin with copious amounts of water for at least 15

minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention. Notify Radiation Safety Officer

immediately.

Inhalation Move to fresh air. Provide oxygen or artificial respiration if needed.

Notify Radiation Safety Officer immediately.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth

thoroughly. Notify Radiation Safety Officer immediately.





SECTION 5: FIRE-FIGHTING MEASURES

Flammable Properties Material is an aqueous solution. Not expected to be flammable.

Extinguishing Media Suitable extinguishing media: Dry chemical, Water spray, Foam

Protection of Firefighters In the event of fire, wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Environmental Prevent release to drains and waterways. Prevent release to

the Precautions environment.

Containment Methods Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Cleanup Methods Contain and collect spillage and place in container for disposal

according to local regulations (see Section 13).

If loss or release of the radioactive contents occurs, notify your Radiation Safety Department

SECTION 7: HANDLING AND STORAGE

Handling Precautions Avoid contact with skin and eyes.

Storage Conditions Keep container tightly closed in a dry and well ventilated place.

Store and handle in a designated area. Keep away from heat,

sparks and flames.

Container Requirements Store in sturdy containers appropriate to maintain the integrity of

this material for its intended use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls and Ventilation

Use process enclosures, containment technology, or other engineering controls to keep





airborne levels below recommended exposure limit.

Respiratory Protection

Use and selection of respiratory protection is based upon engineering controls in use and potential for aerosol generation.

Eye Protection

Use equipment for eye protection tested and approved under government standards such as NIOSH (US)

Hand Protection

Impervious nitrile rubber gloves are recommended. If material is handled in solution, the solvent should also be considered when selecting protective clothing material.

Skin and Body Protection

Impervious clothing. The type of protective equipment must be selected based on the concentration and amount of dangerous substances at a specific workplace.

Hygiene

Wash hands and face before breaks and immediately after handling the product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid

Color Clear, colorless particle-free solution

Odor Odorless

Physical and Chemical Properties

Molecular Weight Not Available

Solubility Soluble

Flashpoint

Density

PH

August Available

Not Available

Value

O'C

Welting Point

Not Available

Value

Not Available

Not Available

Not Available

Not Available

Vapor Density Not Available

Vapor Pressure < 760

RadioactivityUnit-dose of 8-10 mCi at the time of administration
> 1000 mCi/µmole at the time of administration

Half Life 109.8 minutes





SECTION 10: STABILITY AND REACTIVITY

Chemical Stability The shelf life is 10 hours post end of the synthesis stored at room

temperature

Conditions to Avoid No Data Available

Incompatible Products Strong Oxidizing Agents

Hazardous Decomposition

Products

No Data Available

Hazardous Reactions No Data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry Ingestion, Inhalation, Eye Contact, Skin Contact

Acute Toxicity May be harmful by inhalation, ingestion or skin absorption

Eye Irritation May cause eye irritation

Skin Irritation May causes skin irritation

Respiratory Irritation May cause respiratory irritation

Chronic Toxicity No information available

Carcinogenicity No classification data on carcinogenic properties of this material is

available from EPA, IARC, NTP, OSHA or ACIGIH.

Reproductive Toxicity No effects known

SECTION 12: ECOLOGICAL INFORMATION

Environmental Toxicity: Not available

Environmental Fate: Not available.





SECTION 13: DISPOSAL CONSIDERATIONS

Advice on Disposal PYLARIFY (piflufolastat F18) injection must be considered

Radioactive Waste until the activity has decayed to nondetectable levels. Radioactive waste must be handled in accordance with procedures established by your Radiation

Safety Officer, NRC and other applicable regulations.

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations

may be more stringent than regional or national

requirements.

SECTION 14: TRANSPORT INFORMATION

US DOT

UN number: 2915 Class: 7

Proper Shipping Name: Radioactive Material, Type A Package

Marine pollutant: No Poison Inhalation Hazard: No

IATA

UN number: 2915 Class: 7

SECTION 15: REGULATORY INFORMATION

SARA 302 The following components are subject to reporting levels established

by SARA Title III, Section 302: None

SARA 313 The following components are subject to reporting levels

established by SARA Title III, Section 313: None

SARA 311/312 Chronic Health Hazard

California Prop 65 This material does not contain any chemical known to the State of

California to cause cancer, birth defects, or any other reproductive

harm.





SECTION 16: OTHER INFORMATION

MSDS preparation information

Prepared by Environment, Health and Safety 1-978-671-8673

Version 2.0 5/29/2021

Other Information

The information contained in this MSDS is believed to be accurate and represents the best information reasonably available at the time of preparation. However, we make no warranty, express or implied, with respect to such information, and we assume no liability from its use.