



Revision date: 13-Feb-2019 Version: 1.3 Page 1 of 8

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Filgrastim-aafi (Hospira, Inc.)

Trade Name: NIVESTYM; NIVESTIM

Chemical Family: Not determined

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product

Details of the Supplier of the Safety Data Sheet

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045

1-800-879-3477

Hospira UK Limited

Horizon Honey Lane Hurley

Maidenhead, SL6 6RJ United Kingdom

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail: pfizer-MSDS@pfizer.com

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS - Classification Not classified as hazardous

Label Elements

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

Note: This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous

Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

3. COMPOSITION / INFORMATION ON INGREDIENTS						
Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%		
Filgrastim	121181-53-1	Not Listed	Repr. 2 (H361d) STOT RE 1 (H372)	<0.1		
Sodium Acetate	127-09-3	204-823-8	Not Listed	*		

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Sorbitol crystalline - NF	50-70-4	200-061-5	Not Listed	*
Water for Injection	7732-18-5	231-791-2	Not Listed	*
Polysorbate 80	9005-65-6	500-019-9	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of

For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure: Identification and/or Section 11 - Toxicological Information.

Medical Conditions

Identification and/or Section 11 - Loxicological Information None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is

Products:

Formation of toxic gases is possible during heating or fire.

Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

Vol. 10 1 CD 20 10

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting:

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

area thoroughly.

Additional Consideration for

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Cleanup operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical drug product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Filgrastim

Pfizer Occupational Exposure OEB 4 (control exposure to the range of 1ug/m³ to <10ug/m³)

Band (OEB):

Sodium Acetate

Pfizer Occupational Exposure OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³)

Band (OEB):

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Use process

containment, local exhaust ventilation, or other engineering controls to maintain airborne levels

within the OEB range.

Personal Protective

Equipment:

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and

specific operational processes.

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Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hands: Impervious disposable gloves (e.g. Nitrile, etc.) (double recommended) if skin contact with drug

product is possible and for bulk processing operations. (Protective gloves must meet the

standards in accordance with EN374, ASTM F1001 or international equivalent.)

Eyes: Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the

standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

Skin: Impervious disposable protective clothing is recommended if skin contact with drug product is

possible and for bulk processing operations. (Protective clothing must meet the standards in accordance with EN13982, ANSI 103 or international equivalent.)

Respiratory protection: Under normal conditions of use, if the applicable Occupational Exposure Limit (OEL) is

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL (e.g. particulate respirator with a full mask, P3 filter). (Respirators must meet the standards in accordance with EN136, EN143, ASTM F2704-10 or international equivalent.)

Molecular Weight:

Mixture

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:ColourlessOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture

Solvent Solubility: No data available

Water Solubility: Soluble

pH: No data available.

Melting/Freezing Point (°C): No data available

Boiling Point (°C): No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Sorbitol crystalline - NF

No data available
Sodium Acetate
No data available
Water for Injection
No data available
Polysorbate 80
No data available
Filgrastim

No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available

No data available

No data available

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

version date. 13-Feb-2019

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Known Clinical Effects: Adverse effects associated with therapeutic use include bone pain, muscle pain, Headache,

drowsiness, lethargy, dizziness, nausea, vomiting, diarrhea, shortness of breath (dyspnea),

neutropenia, hematological effects

Acute Toxicity: (Species, Route, End Point, Dose)

Sorbitol crystalline - NF

Mouse Oral LD50 17,800 mg/kg Rat Para-periosteal LD50 7100mg/kg

Sodium Acetate

Rat Oral LD 50 3500 mg/kg Mouse Oral LD 50 4960mg/kg

Polysorbate 80

Rat Intravenous LD 50 1790 mg/kg

Mouse Oral LD 50 25 g/kg

Filgrastim

Rat Oral LD50 > 3 mg/kg Mouse Oral LD50 > 3mg/kg Rat Intravenous LD50 > 3mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Filgrastim

13 Week(s) Rat Intravenous115 μg/kg/day LOAEL Bone

52 Week(s) Rat Intraperitoneal 57.5 μg/kg/day LOAEL Bone, Spleen 52 Week(s) Monkey Intraperitoneal 115 μg/kg/day LOAEL Spleen, Liver

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Filgrastim

Reproductive & Fertility Rat No route specified500 ug/kg/day NOAEL No effects at maximum dose

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Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

Version axis. To 1 do 2 d 10

11. TOXICOLOGICAL INFORMATION

Embryo / Fetal Development Rat Intravenous 20 ug/kg/day NOAEL Fetotoxicity

Embryo / Fetal Development Rabbit No route specified 80 ug/kg/day LOAEL Fetotoxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Filgrastim

Bacterial Mutagenicity (Ames) Bacteria Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been investigated. Releases to the environment should be

avoided.

Toxicity: No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

Version date. 13-Feb-2019

15. REGULATORY INFORMATION

Filgrastim

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 developmental toxicity 2/27/2001

Standard for the Uniform Scheduling Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

Sorbitol crystalline - NF

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 200-061-5

Water for Injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 231-791-2

Polysorbate 80

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

Sodium Acetate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child Specific target organ toxicity, repeated exposure-Cat.1; H372 - Causes damage to organs through prolonged or repeated exposure

Data Sources: Publicly available toxicity information.

Material Name: Filgrastim-aafi (Hospira, Inc.)

Revision date: 13-Feb-2019

Version: 1.3

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Revision date: 13-Feb-2019

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet