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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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Material Name: Famotidine Injection

Trade Name:	Not applicable
Chemical Family:	Histamine antagonist
Intended Use:	Pharmaceutical product

2. HAZARDS IDENTIFICATION

Appearance:	Clear, colorless solution		
Additional Hazard Information: Known Clinical Effects: EU Indication of danger:	Adverse effects most commonly reported in clinical use include headache, dizziness, constipation, diarrhea. Secreted in human breast milk. Not classified		
Australian Hazard Classification (NOHSC):	Non-Hazardous Substance. Non-Dangerous Goods.		
Note:	This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings 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				
Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Famotidine	76824-35-6	Not Listed	Not Listed	1

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Aspartic acid	56-84-8	Not Listed	Not Listed	*
Mannitol	69-65-8	200-711-8	Not Listed	*

Additional Information:

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

4. 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.
Symptoms and Effects of Exposure:	For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Use carbon dioxide, dry chemical, or water spray.
Hazardous Combustion Products:	Formation of toxic gases is possible during heating or fire.
Fire Fighting Procedures:	During all fire fighting activities, wear appropriate protective equipment, including self- contained breathing apparatus.
Fire / Explosion Hazards:	Fine particles (such as dust and mists) may fuel fires/explosions.

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.		
Measures for Cleaning / Collecting:	Contain the source of the spill or leak. Absorb spills with non-combustible absorbent material and transfer into a labeled container for disposal. Clean spill area thoroughly. Prevent discharge to		
Measures for Environmental Protections:	Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.		
Additional Consideration for Large Spills:	Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personne		

7. HANDLING AND STORAGE

General 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.
Storage Conditions:	Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Famotidine Pfizer Occupational Exposure Band (OEB):	OEB 3 (control exposure to the range of >10 ug/m^3 to < 100 ug/m^3)
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.
Environmental Exposure Controls:	Refer to specific Member State legislation for requirements under Community environmental legislation.
Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
Hands:	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.
Eyes:	Wear safety glasses or goggles if eye contact is possible.
Skin:	Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.
Respiratory protection:	If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solution	Color:	Clear, colorless	
Molecular Formula:	Mixture	Molecular Weight:	Mixture	

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of use.
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

11. TOXICOLOGICAL INFORMATION

The information included in this section describes the potential hazards of the individual ingredients.

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

Mannitol

General Information:

 Rat
 Oral
 LD 50
 13500
 mg/kg

 Mouse
 Oral
 LD 50
 22
 g/kg

Famotidine

Rat Oral LD50 4049 mg/kg Rat Para-periosteal LD50 254 mg/kg

11. TOXICOLOGICAL INFORMATION

RatIntraperitonealLD50800 mg/kgMouseOralLD504686 mg/kgMouseIntravenousLD50254 mg/kg

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

Famotidine

Reproductive & Fertility Rat Intravenous 200 mg/kg/day NOAEL Fertility **Reproductive & Fertility** Oral NOAEL Rat 2000 mg/kg/day Fertility Embryo / Fetal Development Rabbit Intravenous 200 mg/kg/day LOAEL Maternal Toxicity, Fetotoxicity 500 mg/kg/day Embryo / Fetal Development Rabbit Oral NOAEL Not Teratogenic Embryo / Fetal Development Rat Oral 2000 mg/kg/day NOAEL Not Teratogenic

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

Famotidine

Bacterial Mutagenicity (Ames)Salmonella , E. coliNegative with activationIn Vivo MicronucleusMouseNegativeIn Vivo Chromosome AberrationMouseNegative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Famotidine

92 Week(s)	Mouse	Oral	2000	mg/kg/day	NOAEL	Not carcinogenic
106 Week(s)	Rat	Oral	2000	mg/kg/day	NOAEL	Not carcinogenic

Carcinogen Status:	None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.
At increase risk from exposure:	This material has been shown in rats to be excreted in milk and, as a result, to cause toxicity in young pups; nursing mothers should exercise caution regarding exposure.

12. ECOLOGICAL INFORMATION		
Environmental Overview:	Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.	

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

EU Indication of danger: Not classified

OSHA Label:

Canada - WHMIS: Classifications

WHMIS hazard class:

None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Famotidine

Australia (AICS): Standard for the Uniform Scheduling for Drugs and Poisons:	Present Schedule 2 Schedule 4
Mannitol Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the obligations of Register:	Present
EU EINECS/ELINCS List	200-711-8

16. OTHER INFORMATION

Data Sources: Prepared by: Pfizer proprietary drug development information. Publicly available toxicity information.

Product Stewardship Hazard Communication Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material 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