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## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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**Emergency telephone number:** 

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

Material Name: Caduet (Amlodipine besylate/Atorvastatin calcium) tablets-10 mg/10 mg

CADUET **Trade Name: Chemical Family:** Mixture

Intended Use: Pharmaceutical product for the treatment of high blood pressure (hypertension), high

cholesterol (hyperlipidemia).

## 2. HAZARDS IDENTIFICATION

Appearance: Blue film-coated tablets

Signal Word: WARNING

Statement of Hazard: Toxic to aquatic life with long lasting effects.

Additional Hazard Information:

**Short Term:** Can cause eve irritation: May be harmful if swallowed. (based on components).

Antihypertensive drug: has blood pressure-lowering properties

Repeat-dose studies in animals have shown a potential to cause adverse effects on liver. Long Term: Adverse effects associated with therapeutic use of amlodipine include headache, swelling, **Known Clinical Effects:** 

dizziness, flushing, and palpitations. The most common adverse effects seen with the therapeutic use of atorvastatin include constipation, flatulence, upset stomach, and abdominal

pain. Therapeutic use of atorvastatin has been associated with changes in liver function and

muscle aches or weakness.

**EU Classification** 

**EU Indication of danger:** Dangerous for the Environment

**EU Hazard Symbols:** 

**EU Risk Phrases:** 

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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## 2. HAZARDS IDENTIFICATION

Australian Hazard Classification (NOHSC):

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 product or its ingredients 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	%
Amlodipine besylate	111470-99-6	Not Listed	N;R50/53	13.9
. ,			Xn;R22	
			Xi;R41	
Atorvastatin calcium	134523-03-8	Not Listed	R52/53	10.85
Silicon dioxide, NF	7631-86-9	231-545-4	Not Listed	*
		418-260-2		
Calcium carbonate	471-34-1	207-439-9	Not Listed	*
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*
Starch, pregelatinized	9005-25-8	232-679-6	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	*

Ingredient	CAS Number	<b>EU EINECS/ELINCS List</b>	<b>EU Classification</b>	%
Opadry blue	NOT ASSIGNED	Not Listed	Not Listed	*
Opadry clear	NOT ASSIGNED	Not Listed	Not Listed	*
Hydroxypropyl cellulose	9004-64-2	Not Listed	Not Listed	*
Croscarmellose sodium	74811-65-7	Not Listed	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	*

Additional Information: \* Proprietary

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

safety.

#### For the full text of the R phrases mentioned in this Section, see Section 16

## 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.

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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: Carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, hydrochloride, and other

chlorine-containing compounds

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

## 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 spill if it is safe to do so. Collect spilled material by a method that

controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

**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 personnel.

## 7. HANDLING AND STORAGE

General Handling: Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken,

avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Refer to Section 12 - Ecological Information, for information on potential effects on the environment. 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

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

Amlodipine besylate

Pfizer OEL TWA-8 Hr: 100µg/m<sup>3</sup>

Atorvastatin calcium

Pfizer OEL TWA-8 Hr: 50 µg/m<sup>3</sup>

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
Silicon dioxide, NF		
Australia TWA	2 mg/m³	
Austria OEL - MAKs	4 mg/m <sup>3</sup>	
Czech Republic OEL - TWA	0.1 mg/m <sup>3</sup>	
	4.0 mg/m <sup>3</sup>	
Estonia OEL - TWA	2 mg/m³	
Germany - TRGS 900 - TWAs	4 mg/m <sup>3</sup>	
Germany (DFG) - MAK	4 mg/m³ inhalable fraction	
Ireland OEL - TWAs	6 mg/m <sup>3</sup>	
	2.4 mg/m <sup>3</sup>	
Latvia OEL - TWA	1 mg/m³	
OSHA - Final PELs - Table Z-3 Mineral D:	20 mppcf	
	Listed	
Slovakia OEL - TWA	4.0 mg/m <sup>3</sup>	
Slovenia OEL - TWA	4 mg/m³	
Oalainen aankanata		
Calcium carbonate	40.0 / 3	
Bulgaria OEL - TWA	10.0 mg/m <sup>3</sup>	
France OEL - TWA	10 mg/m <sup>3</sup>	
Latvia OEL - TWA	6 mg/m <sup>3</sup>	
Poland OEL - TWA	10 mg/m <sup>3</sup>	
Portugal OEL - TWA	10 mg/m <sup>3</sup>	
Spain OEL - TWA	10 mg/m <sup>3</sup>	
Microcrystalline cellulose		
ACGIH Threshold Limit Value (TWA)	10 mg/m³	
Australia TWA	10 mg/m <sup>3</sup>	
Belgium OEL - TWA	10 mg/m <sup>3</sup>	
Estonia OEL - TWA	10 mg/m <sup>3</sup>	
France OEL - TWA	10 mg/m <sup>3</sup>	
Ireland OEL - TWAs	10 mg/m <sup>3</sup>	
	4 mg/m³	
Latvia OEL - TWA	2 mg/m³	
OSHA - Final PELS - TWAs:	15 mg/m³	
Portugal OEL - TWA	10 mg/m <sup>3</sup>	
Romania OEL - TWA	10 mg/m <sup>3</sup>	
Spain OEL - TWA	10 mg/m <sup>3</sup>	
Ctarch propolatinizad		
Starch, pregelatinized ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>	
Australia TWA	10 mg/m³	
Belgium OEL - TWA	10 mg/m³	
Bulgaria OEL - TWA	10.0 mg/m <sup>3</sup>	
Czech Republic OEL - TWA	4.0 mg/m <sup>3</sup>	
Greece OEL - TWA	4.0 mg/m³	
GIEECE OEL - IVA	ro mg/m²	

Australia TWA

Belgium OEL - TWA

Bulgaria OEL - TWA

Czech Republic OEL - TWA

Greece OEL - TWA

10 mg/m³

4.0 mg/m³

10 mg/m³

5 mg/m³

Ireland OEL - TWAs

OSHA - Final PELS - TWAs:

10 mg/m³

15 mg/m³

10 mg/m³

10 mg/m³

10 mg/m³

10 mg/m³

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Slovakia OEL - TWA 4 mg/m³
Spain OEL - TWA 10 mg/m³

Magnesium stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m³
Lithuania OEL - TWA 5 mg/m³
Sweden OEL - TWAs 5 mg/m³

The exposure limit(s) listed for solid components are only relevant if dust may be generated.

Analytical Method: Analytical method available for Amlodipine, Atorvastatin. Contact Pfizer Inc for further

information.

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:** Wear impervious gloves if skin contact is possible. **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 the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:Film-coated tabletsColor:BlueMolecular Formula:MixtureMolecular Weight:Mixture

Polymerization: Will not occur

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of use.

Conditions to Avoid: None known

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition Products: None known

## 11. TOXICOLOGICAL INFORMATION

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

ingredients.

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

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## 11. TOXICOLOGICAL INFORMATION

#### **Calcium carbonate**

Rat Oral LD50 6450 mg/kg

#### Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m<sup>3</sup>

#### Microcrystalline cellulose

Rat Oral LD50 > 5000 mg/kg Rabbit Dermal LD50 > 2000 mg/kg

#### Polysorbate 80

Rat Oral LD50 25 g/kg

#### Silicon dioxide, NF

Rat Oral LD50 10 g/kg

#### Amlodipine besylate

Rat (M) Oral LD50 393 mg/kg Rat (F) Oral LD50 686 mg/kg

#### Atorvastatin calcium

Rat/Mouse Oral LD50 > 5000 mg/kg Rabbit Dermal LD50 > 2000 mg/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.

#### Irritation / Sensitization: (Study Type, Species, Severity)

## Microcrystalline cellulose

Skin Irritation Rabbit Non-irritating Eye Irritation Rabbit Non-irritating

## Amlodipine besylate

Eye Irritation Rabbit Severe
Skin Irritation Rabbit Non-irritating

Skin Sensitization - GPMT Guinea Pig Negative

## Atorvastatin calcium

Skin Sensitization - Beuhler Guinea Pig Negative

Skin Irritation Rabbit Non-irritating

Eye Irritation Rabbit Mild

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

#### Amlodipine besylate

3 Month(s) Rat Oral 3 mg/kg/day NOAEL Adrenal gland, Heart

1 Month(s) Rat Oral 3.5 mg/kg/day LOEL Heart

1 Year(s) Rat Oral 2 mg/kg/day NOAEL Adrenal gland, Heart

005

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## 11. TOXICOLOGICAL INFORMATION

#### Atorvastatin calcium

104 Week(s) Dog Oral 10 mg/kg/day LOAEL Liver 13 Week(s) Mouse Oral 100 mg/kg/day LOAEL Liver 52 Week(s) Rat Oral 5 mg/kg/day NOAEL Liver

13 Week(s) Rat Oral 5 (male); 20 (female) mg/kg/day NOAEL Liver

Subchronic toxicity of amlodipine besylate was evaluated in rats at oral doses up to 30 mg/kg/day for three months. Drug-related changes included increased heart and adrenal gland weights and were reversed one month after cessation of treatment. These changes are considered to be the result of the desired effect of the drug, however, they are considered potential hazards in the workplace. Amlodipine besylate was evaluated in rats orally at doses up to 25 mg/kg/day for twelve months. Effects similar to those reported in the subchronic study were reported. The No Observed Adverse Effect Level (NOAEL) in this study was 2 mg/kg/day.

**Chronic Effects/Carcinogenicity** 

Amlodipine showed no carcinogenic potential when tested in mice at dose levels up to 2.5 mg/kg/day for 2 years. Atorvastatin calcium was not carcinogenic in rats. In a 2-year study in mice, the incidence of liver tumors, benign in males and malignant in females, was increased at the highest dose used. Similar results have been reported with other drugs in the same chemical class, but due to the mechanism of tumor development, these results are not considered to be relevant to humans.

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

#### Amlodipine besylate

Fertility and Embryonic Development Rat Oral 25 mg/kg/day NOAEL Not teratogenic, Maternal toxicity Peri-/Postnatal Development Oral 4 mg/kg/day **NOAEL** Fetotoxicity, Fetal mortality Prenatal & Postnatal Development Rat Oral 25 mg/kg/day NOAEL Not Teratogenic Prenatal & Postnatal Development Rabbit Oral 25 mg/kg/day NOAEL Not Teratogenic

## Atorvastatin calcium

Reproductive & Fertility Rat Oral 20 mg/kg/day NOAEL Negative

Fertility and Embryonic Development Rat Oral 100 mg/kg/day NOAEL Negative

Embryo / Fetal Development Rat Oral 100 mg/kg/day NOAEL Not Teratogenic, Maternal Toxicity

Embryo / Fetal Development Rabbit Oral 10 mg/kg/day NOAEL Not Teratogenic, Maternal Toxicity, Fetotoxicity

Peri-/Postnatal Development Rat Oral 20 mg/kg/day NOAEL Fetotoxicity

**Reproductive Effects**No effects on fertility or reproductive performance were observed for amlodipine besylate or amlodipine maleate in the rat. Amlodipine besylate was reported to prolong gestation and

amlodipine maleate in the rat. Amlodipine besylate was reported to prolong gestation and duration of labor in rats. This effect has been similarly reported for other calcium channel blockers. No adverse effects on fertility or reproduction were observed in rats given atorvastatin calcium at doses up to 175 mg/kg/day in males or up to 225 mg/kg/day in females. Also, atorvastatin did not cause adverse effects on sperm or semen parameters, or on

Also, atorvastatin did not cause adverse effects on sperm or semen parameters, or on reproductive organ histology in dogs given doses of 10, 40, or 120 mg/kg/day for 2 years. No evidence of embryotoxicity, fetotoxicity or teratogenicity was seen in rats or rabbits when amlodipine besylate was administered at dose levels up to 25 mg/kg. No birth defects were

observed in rats or rabbits when atorvastatin calcium was given at maternally and fetally toxic doses. However, rare reports of birth defects have been linked to drugs of this class. Liver

Adrenal glands Cardiovascular system

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

#### Amlodipine besylate

**Teratogenicity** 

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Cytogenetics Mouse Bone Marrow Negative

In Vitro Chromosome Aberration Human Lymphocytes Negative

#### Atorvastatin calcium

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## 11. TOXICOLOGICAL INFORMATION

In Vitro Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative

In Vivo Micronucleus Mouse Bone Marrow Negative

Amlodipine showed No evidence of mutagenic activity in bacterial or mammalian cells in vitro, Mutagenicity

or clastogenic activity in vitro or in vivo. Atorvastatin showed No evidence of mutagenic or

clastogenic activity in in vitro or in vivo tests.

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

Amlodipine besylate

24 Month(s) Rat Oral, in feed 2.5 mg/kg/day Not carcinogenic, No effects at maximum dose NOAEL

24 Month(s) Mouse Oral, in feed 0.5 mg/kg/day NOAEL Not carcinogenic

Atorvastatin calcium

104 Week(s) Mouse Oral 200 mg/kg/day NOAEL Not carcinogenic 104 Week(s) Rat Oral 100 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.

Silicon dioxide, NF

Group 3 (Not Classifiable) IARC:

At increase risk from exposure: Individuals with a known history of hypersensitivity to this material or other materials in its

> chemical class and individuals with liver conditions and/or impaired liver function may be more susceptible to toxicity in cases of overexposure. Atorvastatin calcium as a HMG-CoA reductase inhibitor is contraindicated during pregnancy and in nursing mothers. Women of

childbearing age or nursing mothers should exercise caution regarding exposure.

There have been rare reports of persistent elevations of liver function enzymes or myopathy **Additional Information:** 

resulting from therapeutic use of atorvastatin calcium.

12. ECOLOGICAL INFORMATION

This formulation has not been tested as a whole, the following apply to component **Environmental Overview:** 

substance(s): Harmful effects to aquatic organisms could occur.

**Bioaccumulation and Toxicity:** Moderate acute toxicity to aquatic organisms could occur. See aquatic toxicity data, below.

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Amlodipine besylate

Daphnia magna (Water Flea) OECD EC50 48 Hours 9.9 mg/L

Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours 14 mg/L

Green algae **OECD** EbC50 72 Hours 0.28 mg/L Green Algae OECD ErC50 72 Hours > 0.91 mg/L

Atorvastatin calcium

Daphnia magna (Water Flea) EC50 48 Hours 200 mg/L

Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours > 92 mg/L Pseudokirchneriella subcapitata (Green Alga) EbC50 72 Hours 75 mg/L OECD

Daphnia magna (Water Flea) OECD NOEC 21 Days 0.14 mg/L

OECD NOEC Pimephales promelas (Fathead Minnow) 32 Days 0.45 mg/L

**Aquatic Toxicity Comments:** A greater than (>) symbol indicates that acute ecotoxicity was not observed at the maximum

solubility. Since the substance is insoluble in aqueous solutions above this concentration, an

acute ecotoxicity value (i.e. LC/EC50) is not achievable.

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## 12. ECOLOGICAL INFORMATION

Bacterial Inhibition: (Inoculum, Method, End Point, Result)

#### Amlodipine besylate

Nostoc sp. (Freshwater Cyanobacteria) MIC 20 mg/L
Aspergillus Niger MIC > 100 mg/L
Trichoderma viride MIC > 100 mg/L
Clostridium perfingens MIC >100 mg/L
Bacillus subtilis MIC 80 mg/L

#### Atorvastatin calcium

Aspergillus niger (Fungus) MIC > 1000 mg/L

Trichoderma viride (Fungus) MIC > 1000 mg/L

Clostridium perfingens (Bacterium) MIC 100 mg/L

Activated sludge OECD EC50 >1000 mg/L

## 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 Symbol: N

**EU Indication of danger:** Dangerous for the Environment

**EU Risk Phrases:** 

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

**EU Safety Phrases:** 

S57 - Use appropriate containment to avoid environmental contamination.

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## **15. REGULATORY INFORMATION**

#### **OSHA Label:**

WARNING

Toxic to aquatic life with long lasting effects.

## Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision B



	ide. NF	

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	231-545-4
	418-260-2

#### Hydroxypropyl cellulose

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present

#### **Calcium carbonate**

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	207-439-9

## **Croscarmellose sodium**

Australia (AICS):	Present

## Polysorbate 80

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present

## Microcrystalline cellulose

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	232-674-9

## Starch, pregelatinized

**EU EINECS/ELINCS List** 

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the	Present
obligations of Register:	

232-679-6

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## 15. REGULATORY INFORMATION

Magnesium stearate

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

Australia (AICS):

EU EINECS/ELINCS List

Present
209-150-3

## 16. OTHER INFORMATION

## Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Data Sources:** Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 12 - Ecological Information. Updated Section 15 - Regulatory

Information.

Prepared by: 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** 

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