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

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Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

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Material Name: Maraviroc Film-Coated Tablets

Trade Name: CELSENTRI; SELZENTRY

Chemical Family: Not determined

Intended Use: Pharmaceutical product used for Treatment of HIV

2. HAZARDS IDENTIFICATION

Appearance: Blue film-coated tablets

Signal Word: WARNING

Statement of Hazard: May cause damage to cardiovascular system through prolonged or repeated exposure.

Additional Hazard Information:

Short Term: May produce slight eye irritation. if tablets are crushed or broken (based on components).

Long Term: Repeat-dose studies in animals have shown a potential to cause adverse effects on liver.

Known Clinical Effects: Adverse effects most commonly reported in clinical use include diarrhea, headache, nausea, vomiting, dizziness, insomnia and skin rash.

EU Indication of danger: Harmful

EU Hazard Symbols:

X

EU Risk Phrases:

Australian Hazard Classification (NOHSC):

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	*
Maraviroc	376348-65-1	Not listed	Xn; R48/22	24

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Calcium phosphate dibasic, anhydrous	7757-93-9	231-826-1	Not Listed	*
Sodium starch glycolate	9063-38-1	Not listed	Not Listed	*
Opadry blue	NOT ASSIGNED	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.

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. Emits toxic fumes of oxides of

nitrogen, carbon monoxide, carbon dioxide, and halogen-containing gases.

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 the spill if it is safe to do so. Avoid generating airborne dust. Collect

spilled material by a method that controls dust generation.

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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. 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. Refer to Section 12 - Ecological Information, for information on

other equivalent controls. Refer to Section 12 - Ecological in potential effects on the environment.

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.

Microcrystalline cellulose

ACGIH Threshold Limit Value (TWA) 10 mg/m³ TWA **Australia TWA** 10 ma/m³ **Belgium OEL - TWA** Listed **Estonia OEL - TWA** Listed France OEL - TWA Listed Ireland OEL - TWAs Listed Listed Latvia OEL - TWA **OSHA - Final PELS - TWAs:** 15 mg/m3 total

5 mg/m³

Portugal OEL - TWA Listed
Romania OEL - TWA Listed
Spain OEL - TWA Listed

Calcium phosphate dibasic, anhydrous

Latvia OEL - TWA Listed

Magnesium stearate

ACGIH Threshold Limit Value (TWA) 10 mg/m3 TWA **Australia TWA** 10 mg/m³ Listed **Belgium OEL - TWA** Ireland OEL - TWAs Listed Lithuania OEL - TWA Listed Portugal OEL - TWA Listed Spain OEL - TWA Listed Sweden OEL - TWAs Listed

Maraviroc

Pfizer OEL TWA-8 Hr: 80µg/m³

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Analytical Method: Analytical method available for Maraviroc. 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: 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 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 TabletColor:BlueMolecular Formula:MixtureMolecular Weight:Mixture

Polymerization: Will not occur

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Keep away from heat and other sources of ignition, including electrostatic discharge.

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

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)

Maraviroc

Rat Oral LD50 > 2000 mg/kg Mouse Oral LD50 > 2000 mg/kg

Magnesium stearate

Rat Oral LD50 > 2000 mg/kg Rat Inhalation LC50 > 2000 mg/m³

Microcrystalline cellulose

Rat 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.

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11. TOXICOLOGICAL INFORMATION

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

Maraviroc

Eye Irritation Rabbit Minimal
Skin Irritation Rabbit Non-irritating

Skin Sensitization - LLNA Mouse Negative

Microcrystalline cellulose

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

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

Maraviroc

1 Month(s) Dog Oral 5 mg/kg/day NOAEL Cardiovascular system, Eyes, Heart 6 Month(s) Dog Oral 5 mg/kg/day NOAEL Cardiovascular system Heart Eyes 1 Month(s) Rat Oral 300 mg/kg/day **NOAEL** Liver Gastrointestinal system 6 Month(s) Oral 100 mg/kg/day NOAEL Rat Liver 9 Month(s) Monkey Oral 120 mg/kg/day NOAEL Cardiovascular system Heart

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

Maraviroc

Fertility and Embryonic Development Oral 1000 mg/kg/day **NOAEL** Rat Maternal toxicity, Embryotoxicity No effects at maximum dose Embryo / Fetal Development Oral 300 (maternal) /1000 (fetal) mg/kg/day NOAEL Embryo / Fetal Development Rabbit Oral 75 (maternal)/ 200 (fetal) mg/kg/day **NOAEL** Maternal Toxicity Peri-/Postnatal Development Rat Oral 300 mg/kg/day NOAEL Maternal Toxicity, Developmental toxicity

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

Maraviroc

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative In Vitro Chromosome Aberration Human Lymphocytes Negative In Vivo Micronucleus Mouse Negative

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

Maraviroc

6 Month(s) Mouse Oral 1500 mg/kg/day NOAEL Not carcinogenic 104 Week(s) Rat Oral 900 mg/kg/day Not carcinogenic

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

12. ECOLOGICAL INFORMATION

Environmental Overview: No harmful effects to aquatic organisms are expected. This material has low potential to

bioaccumulate and long-term adverse effects to aquatic organisms are not expected. No toxicity to wastewater treatment microorganisms is expected. Releases to the environment

should be avoided.

Bioaccumulation and Toxicity: See aquatic toxicity data, below. **Aquatic Toxicity: (Species, Method, End Point, Duration, Result)**

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12. ECOLOGICAL INFORMATION

Maraviroc

Daphnia magna (Water Flea) OECD EC50 48 Hours 69 mg/L

Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours > 73 mg/L

Pseudokirchneriella subcapitata (Green Alga) OECD EC50 72 Hours > 115 mg/L

Ceriodaphnia dubia (Daphnids) EPA EC50 7 Days > 92 mg/L

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

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

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

Bacterial Inhibition: (Species, Method, End Point, Duration, Result)

Maraviroc

Activated sludge OECD EC50 > 1000 mg/L

13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with all applicable laws and regulations. Member State **Disposal Procedures:**

> 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

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

15. REGULATORY INFORMATION

EU Symbol: Xn Harmful **EU Indication of danger:**

EU Risk Phrases:

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

EU Safety Phrases:

S36 - Wear suitable protective clothing.

S22 - Do not breathe dust.

OSHA Label:

WARNING

May cause damage to cardiovascular system through prolonged or repeated exposure.

Canada - WHMIS: Classifications

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15. REGULATORY INFORMATION

WHMIS hazard class:

Class D, Division 2, Subdivision B



Microcrystalline cellulose

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

Australia (AICS):

EU EINECS/ELINCS List

232-674-9

Calcium phosphate dibasic, anhydrous

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

Australia (AICS):

EU EINECS/ELINCS List

231-826-1

Sodium starch glycolate

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

Australia (AICS):

Listed

Magnesium stearate

Inventory - United States TSCA - Sect. 8(b)ListedAustralia (AICS):ListedEU EINECS/ELINCS List209-150-3

16. OTHER INFORMATION

Full text of S3 R phrases

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Data Sources: Pfizer proprietary drug development information.

Reasons for Revision: Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage.

Updated Section 11 - Toxicology Information.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety Operations

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End of Safety Data Sheet
