

Revision date: 28-Apr-2008

Version: 2.1

Page 1 of 10

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

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Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: Contact E-Mail: pfizer-MSDS@pfizer.com This e-mail address should not be used to report suspected adverse events.

Material Name: Varenicline tartrate tablets

Trade Name:	CHANTIX; CHAMPIX
Chemical Family:	Mixture
Intended Use:	Pharmaceutical product used for Smoking cessation

2. HAZARDS IDENTIFICATION

Appearance:	White to off-white film-coated tablets; Blue film-coated tablets
Statement of Hazard:	Non-hazardous in accordance with international standards for workplace safety.
Additional Hazard Information: Short Term:	Active ingredient may be harmful if swallowed. May cause minor irritation if tablets are crushed or broken.
Long Term: Known Clinical Effects:	Animal studies indicate that this material may cause adverse effects on the liver. Adverse effects associated with the therapeutic use include nausea, sleep disturbances, constipation, flatulence, vomiting. Additionally, behavioral changes, agitation, depressive mood, suicidal behavior, and abnormal dreams may occur.
EU Indication of danger:	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

<u>Hazardou</u>s

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Magnesium stearate	557-04-0	209-150-3	Not Listed	*

Material Name: Varenicline tartrate tablets Revision date: 28-Apr-2008

3. COMPOSITION/INFORMATION ON INGREDIENTS				
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*
Varenicline tartrate	375815-87-5	Not listed	N;R50 Xn;R22	<1.0

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Colloidal silicon dioxide	7631-86-9	231-545-4	Not Listed	*
		EEC No. 418-260-2		
Croscarmellose sodium	74811-65-7	Not listed	Not Listed	*
Film coating	NOT ASSIGNED	Not listed	Xn;R22	*
Calcium phosphate dibasic, anhydrous	7757-93-9	231-826-1	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.
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.

Material Name:	Varenicline tartrate tablets
Revision date: 2	28-Apr-2008

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: Storage Conditions:	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 thoroughly after handling. Releases to the environment should be avoided. Refer to Section 12 - Ecological Information, for information on potential effects on the environment. Store at controlled room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Colloidal silicon dioxide Australia TWA Austria OEL - MAKs Czech Republic OEL - TWA Estonia OEL - TWA Germany - TRGS 900 - TWAs Germany (DFG) - MAK Ireland OEL - TWAs Latvia OEL - TWA OSHA - Final PELs - Table Z-3 Mineral D: Slovenia OEL - TWA	= 2 mg/m ³ TWA Listed Listed = 4 mg/m ³ TWA = 4 mg/m ³ MAK = 2.4 mg/m ³ TWA = 6 mg/m ³ TWA Listed (80)/(% SiO2) mg/m ³ TWA = 20 mppcf TWA Listed	
Magnesium stearate		
ACGIH Threshold Limit Value (TWA) Australia TWA Belgium OEL - TWA Ireland OEL - TWAs Lithuania OEL - TWA Portugal OEL - TWA Spain OEL - TWA Sweden OEL - TWAs	 = 10 mg/m³ TWA except stearates of toxic metals = 10 mg/m³ TWA Listed = 10 mg/m³ TWA except lead stearate Listed Listed Listed = 5 mg/m³ LLV 	\$
Microcrystalline cellulose		
ACGIH Threshold Limit Value (TWA) Australia TWA Belgium OEL - TWA Estonia OEL - TWA France OEL - TWA Ireland OEL - TWA OSHA - Final PELS - TWAs: Portugal OEL - TWA Romania OEL - TWA Spain OEL - TWA	= 10 mg/m ³ TWA = 10 mg/m ³ TWA Listed Listed = 10 mg/m ³ TWA = 4 mg/m ³ TWA Listed = 15 mg/m ³ TWA total = 5 mg/m ³ TWA Listed Listed Listed	
	Listed	
Varenicline tartrate Pfizer OEL TWA-8 Hr:	5 μg/m³	

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

Analytical Method: Engineering Controls:	Analytical method available for Varenicline. Contact Pfizer Inc for further information. 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.
Personal Protective Equipment:	
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 tablets	Color:	White to off-white ; Blue
Molecular Formula:	Mixture	Molecular Weight:	Mixture

10. STABILITY AND REACTIVITY

Stability:Stable undConditions to Avoid:None knowIncompatible Materials:As a precation

Stable under normal conditions of use. None known As a precautionary measure, keep away from strong oxidizers

Material Name: Varenicline tartrate tablets Revision date: 28-Apr-2008 Page 6 of 10 Version: 2.1

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)

Microcrystalline cellulose

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

Varenicline tartrate

Rat Oral LDmin.(hydrochloride salt) 300 mg/kg Rat Dermal LD50 > 2000 mg/kg

Magnesium stearate

 Rat
 Oral
 LD50
 > 2000 mg/kg

 Rat
 Inhalation
 LC50
 > 2000 mg/m³

 Acute Toxicity Comments:
 A green

g/m³ 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

Varenicline tartrate

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild Skin Sensitization - M & K Guinea Pig Negative

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

Varenicline tartrate

NOAEL No effects at maximum dose 3 Month(s) Monkey Oral 0.2 mg/kg/day Oral 0.2 mg/kg/day NOAEL 9 Month(s) Monkev No effects at maximum dose Oral 10 mg/kg/day NOAEL Gastrointestinal system. Liver 3 Month(s) Rat 6 Month(s) Oral 10 mg/kg/day NOAEL Gastrointestinal system Rat 9 Month(s) Monkey Oral 0.4 mg/kg/day NOAEL Gastrointestinal system

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

Varenicline tartrate

No effects at maximum dose Fertility & Embryonic Development - Females Oral 15 mg/kg/day NOAEL Rat Fertility & Embryonic Development - Males Rat Oral 15 mg/kg/day NOAEL No effects at maximum dose Oral 0.3 mg/kg/day Embryo / Fetal Development Rat NOAEL Maternal Toxicity, Not Teratogenic Embryo / Fetal Development Rabbit Oral 10 mg/kg/day NOAEL Maternal Toxicity, Fetotoxicity Prenatal & Postnatal Development Oral 0.3, 3 mg/kg/day Maternal Toxicity, Developmental toxicity Rat NOAEL

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

Varenicline tartrate

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

Material Name: Varenicline tartrate tablets Revision date: 28-Apr-2008

12. ECOLOGICAL INFORMATION

Environmental Overview:

This mixture contains material that is toxic to aquatic life. Releases to the environment should be avoided.

Material Name: Varenicline tartrate tablets Revision date: 28-Apr-2008

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

Varenicline tartrate

Oncorhynchus mykiss (Rainbow Trout) OECD LC50 96 Hours 48 mg/L *Pseudokirchneriella subcapitata* (Green Alga) OECD EC50 72 Hours 2.9 mg/L Daphnia magna OECD EC50 48 Hours 0.24 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.

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

Varenicline tartrate

Trichoderma viride (Fungus)MIC> 1000mg/LBacillus subtilis (Bacterium)MIC> 1000mg/L

13. DISPOSAL CONSIDERATIONS

Disposal Procedures:

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered.

14. TRANSPORT INFORMATION

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

Material Name: Varenicline tartrate tablets Revision date: 28-Apr-2008

Page 9 of 10 Version: 2.1

15. REGULATORY INFORMATION

EU Indication of danger:

Not classified

OSHA Label: Non-hazardous in accordance with international standards for workplace safety.

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.

Colloidal silicon dioxide Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS/ELINCS List	Present Present 231-545-4 EEC No. 418-260-2
Magnesium stearate	
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	209-150-3
Microcrystalline cellulose Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS/ELINCS List	XU Present 232-674-9
Croscarmellose sodium	
Australia (AICS):	Present
Calcium phosphate dibasic, anhydrous Inventory - United States TSCA - Sect. 8(b) Australia (AICS): EU EINECS/ELINCS List	Present Present 231-826-1

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed. R50 - Very toxic to aquatic organisms. **Data Sources:**

Pfizer proprietary drug development information. Safety data sheets for individual ingredients. Publicly available toxicity information.

Material Name: Varenicline tartrate tablets Revision date: 28-Apr-2008

Reasons for Revision:	Updated Section 2 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 9 - Physical and Chemical Properties.
Prepared by:	Toxicology and Hazard Communication Pfizer Global Environment, Health, and Safety

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