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

Pfizer Inc **Pfizer Pharmaceuticals Group** 235 East 42nd Street New York, New York 10017 1-212-573-2222

**Emergency telephone number:** CHEMTREC (24 hours): 1-800-424-9300 **Contact E-Mail:** pfizer-MSDS@pfizer.com Pfizer Ltd Ramsgate Road Sandwich, Kent **CT13 9NJ United Kingdom** +00 44 (0)1304 616161 **Emergency telephone number:** 

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

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

Material Name: Sertraline hydrochloride film coated tablets

**Trade Name:** ZOLOFT; ALTRULINE; GLADEM; TATIQ

**Chemical Family:** Mixture

Intended Use: Pharmaceutical product used as antidepressant

2. HAZARDS IDENTIFICATION

Light green, Light blue, or Light yellow film-coated tablets Appearance:

Signal Word: WARNING

Statement of Hazard: Harmful if swallowed. Very toxic to aquatic life.

**Additional Hazard Information:** 

**Known Clinical Effects:** Ingestion of this material may cause effects similar to those seen in clinical use including suicidal behavior, nausea, diarrhea, insomnia, and headache. Signs and symptoms associated with non-fatal overdosage were drowsiness, vomiting, rapid heart rate, nausea,

dizziness, agitation, and tremor.

**EU Indication of danger:** Harmful

Dangerous for the Environment

**EU Hazard Symbols:** 

Long Term:



**EU Risk Phrases:** 

R22 - Harmful if swallowed.

R50 - Very toxic to aquatic organisms. Hazardous Substance. Dangerous Goods.

**Australian Hazard Classification** (NOHSC):

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## 2. HAZARDS IDENTIFICATION

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.

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## COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	<b>EU EINECS/ELINCS List</b>	<b>EU Classification</b>	%
Sertraline hydrochloride	79559-97-0	Not Listed	N;R50 Xn;R22	37
Microcrystalline cellulose	9004-34-6	232-674-9	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>	%
Hydroxypropyl cellulose	9004-64-2	Not Listed	Not Listed	*
Dibasic calcium phosphate, dihydrate USP	7789-77-7	Not Listed	Not Listed	*
Sodium starch glycolate	9063-38-1	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.

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

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

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

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:** May emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride

and other chlorine-containing compounds.

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

contained breathing apparatus.

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Fire / Explosion Hazards: Not determined

## 6. ACCIDENTAL RELEASE MEASURES

**Health and Safety Precautions:** Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Contain the source of spill if it is safe to do so. Collect spilled material by a method that Measures for Cleaning / Collecting:

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

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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.

Sertraline hydrochloride

Pfizer OEL TWA-8 Hr: 0.5 mg/m<sup>3</sup>

Dibasic calcium phosphate, dihydrate USP

Latvia OEL - TWA Listed

Microcrystalline cellulose

**ACGIH Threshold Limit Value (TWA)** 10 mg/m<sup>3</sup> TWA 10 mg/m<sup>3</sup> **Australia TWA Belgium OEL - TWA** Listed **Estonia OEL - TWA** Listed France OEL - TWA Listed Ireland OEL - TWAs Listed Latvia OEL - TWA Listed

**OSHA - Final PELS - TWAs:** 15 mg/m<sup>3</sup> total

5 mg/m<sup>3</sup> Listed

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

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Magnesium stearate

**ACGIH Threshold Limit Value (TWA)** 10 mg/m<sup>3</sup> TWA **Australia TWA** 10 mg/m<sup>3</sup> **Belgium OEL - TWA** Listed **Ireland OEL - TWAs** Listed Lithuania OEL - TWA Listed Listed Portugal OEL - TWA Spain OEL - TWA Listed Sweden OEL - TWAs Listed

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

**Analytical Method:** Analytical method available for Sertraline HCI. Contact Pfizer Inc for further information. Engineering controls should be used as the primary means to control exposures. General **Engineering Controls:** 

room ventilation is adequate unless the process generates dust, mist or fumes. **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).

Not required for the normal use of this product. Wear protective gloves when working with Hands:

large quantities.

Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is Eyes:

possible.

Skin: Not required for the normal use of this product. Wear protective clothing when working with

large quantities.

Not required for the normal use of this product. If the applicable Occupational Exposure Limit Respiratory protection:

(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: Tablet** Light green, Light blue, or Color:

Light yellow

Molecular Formula: Mixture Mixture **Molecular Weight:** 

**Partition Coefficient** 

(Calculated; pH 7.4 - Log D):

2.39 (pH 7) (Sertraline HCI)

Polymerization: Will not occur

**Partition Coefficient** 2.9 (pH 7) (Sertraline HCI) (n-octanol/water - Log P):

## 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

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## 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

#### Magnesium stearate

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

#### Sertraline hydrochloride

Mouse Oral LD50 419 - 548 mg/kg Rat Oral LD50 1327 - 1591 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

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

#### Sertraline hydrochloride

3 Month(s) Rat Oral 80 mg/kg/day LOAEL Liver 3 Month(s) Dog Oral 80 mg/kg/day LOAEL Liver

1 Year(s) Dog Oral 30 mg/kg/day LOAEL Central Nervous System

2 Year(s) Rat Oral 40 mg/kg/day LOAEL Liver

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

#### Sertraline hydrochloride

Peri-/Postnatal Development Rat Oral 20 mg/kg/day LOAEL Early embryonic development, Developmental toxicity

Reproductive & Fertility Rat Oral 80 mg/kg/day LOAEL Fertility

Reproductive & Fertility Rat 10 mg/kg/day LOAEL Developmental toxicity Oral Embryo / Fetal Development Rabbit Oral 40 mg/kg/day NOAEL Not Teratogenic 80 mg/kg/day Embryo / Fetal Development Oral **NOAEL** Not Teratogenic Rat

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

# Sertraline hydrochloride

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
Mammalian Cell Mutagenicity Mouse Lymphoma Negative
In Vitro Chromosome Aberration Human Lymphocytes Negative

Bone Marrow Metaphase Analysis Mouse Negative In Vitro Cytogenetics Mouse Bone Marrow Negative

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

200

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## 11. TOXICOLOGICAL INFORMATION

Sertraline hydrochloride

2 Year(s) Rat Oral 40 mg/kg/day NOAEL Not carcinogenic

2 Year(s) Mouse Oral 40 mg/kg/day LOAEL Benign tumors, Liver, Lungs

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

## 12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. In the

environment, the active ingredient in this formulation is expected to remain in water or migrate through the soil to groundwater. Harmful effects to aquatic organisms could occur. Releases

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to the environment should be avoided.

Mobility, Persistence and

Degradability:

The active ingredient in this formulation is water soluble and is expected to remain primarily in

water.

Bioaccumulation and Toxicity: High acute toxicity to aquatic organisms is expected. Toxicity to wastewater treatment

microorganisms may occur. See aquatic toxicity data, below. 2.39 (pH 7) (Sertraline HCI)

Partition Coefficient

(Calculated; pH 7.4 - Log D):

Partition Coefficient

2.9 (pH 7) (Sertraline HCI)

(n-octanol/water - Log P):

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

## Sertraline hydrochloride

Daphnia magna (Water Flea) EC50 1.25 Hours 2.14 mg/L

Pimephales promelas (Fathead Minnow) TAD LC50 96 Hours 0.30 mg/L

Pseudokirchneriella subcapitata (Green Alga) NPDES EC50 96 Hours 0.03 mg/L Skeletonema costatum (Marine Diatom) NPDES EC50 96 Hours 0.03 mg/L

Pseudokirchneriella subcapitata (Green Alga) TAD NOEC 12 Days 0.033 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.

This material is regulated for transportation as a hazardous material/dangerous good.

UN number: UN 3077

**UN proper shipping name:** Environmentally Hazardous Substance, Solid, n.o.s (substituted napthalenamine,

hydrochloride salt)

Transport hazard class(es):

Packing group:

Environmental Hazard(s): Marine Pollutant

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## 15. REGULATORY INFORMATION

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

Dangerous for the Environment

**EU Risk Phrases:** 

R22 - Harmful if swallowed.

R50 - Very toxic to aquatic organisms.

**EU Safety Phrases:** 

S22 - Do not breathe dust.

S57 - Use appropriate containment to avoid environmental contamination.

#### **OSHA Label:**

WARNING

Harmful if swallowed. Very toxic to aquatic life.

#### 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.

Hydroxypropyl cellulose

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

Australia (AICS):

Listed

Dibasic calcium phosphate, dihydrate USP

Australia (AICS): Listed

Sodium starch glycolate

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

Australia (AICS):

Listed

Microcrystalline cellulose

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

Australia (AICS):

EU EINECS/ELINCS List

232-674-9

Magnesium stearate

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

Australia (AICS):

EU EINECS/ELINCS List

209-150-3

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# **16. OTHER INFORMATION**

## Text of R phrases mentioned in Section 3

R22 - Harmful if swallowed.

R50 - Very toxic to aquatic organisms.

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

**Reasons for Revision:** Updated Section 14 - Transport Information.

Prepared by: Product Stewardship Hazard Communications

Pfizer Global Environment, Health, and Safety Operations

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**End of Safety Data Sheet**