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# **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**

**Product Identifier** 

**Material Name: Miglitol Tablets** 

**Trade Name:** Glyset **Chemical Family:** Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product used as antidiabetic agent

Details of the Supplier of the Safety Data Sheet

Pfizer Inc **Pfizer Pharmaceuticals Group** 235 East 42nd Street New York, New York 10017 1-800-879-3477

Ramsgate Road Sandwich, Kent **CT13 9NJ United Kingdom** +00 44 (0)1304 616161 **Emergency telephone number:** 

Pfizer Ltd

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Contact E-Mail: pfizer-MSDS@pfizer.com International CHEMTREC (24 hours): +1-703-527-3887

### HAZARDS IDENTIFICATION

## Classification of the Substance or Mixture

**GHS - Classification** 

Reproductive Toxicity: Category 2

**EU Classification:** 

EU Indication of danger: Toxic to Reproduction: Category 3

EU Risk Phrases:

R63 - Possible risk of harm to the unborn child.

**Label Elements** 

Signal Word: Warning

**Hazard Statements:** H361d - Suspected of damaging the unborn child

**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations

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Other Hazards **Australian Hazard Classification** (NOHSC):

No data available

Non-Hazardous Substance. Non-Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning 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	EU Classification	GHS	%
		EINECS/ELINCS		Classification	
		List			
Magnesium stearate	557-04-0	209-150-3	Not Listed	Not Listed	*
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	Not Listed	*
Miglitol	72432-03-2	276-661-6	Repr. Cat.3, R63	Repr. 2, H361d	25-100
					mg***
Starch	9005-25-8	232-679-6	Not Listed	Not Listed	*
Titanium dioxide	13463-67-7	236-675-5	Not Listed	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Hydroxypropyl methylcellulose	9004-65-3	Not Listed	Not Listed	Not Listed	*
Polyethylene glycol	25322-68-3	Not Listed	Not Listed	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	Not Listed	*

**Additional Information:** 

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

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

**Description of 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.

<sup>\*</sup> Proprietary

<sup>\*\*\*</sup> per tablet/capsule/lozenge/suppository

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**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.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of

For information on potential signs and symptoms of exposure, See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions
Aggravated by Exposure:

None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** 

Formation of toxic gases is possible during heating or fire.

Products:

Fire / Explosion Hazards: Not applicable

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

### **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

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.

**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

### **Precautions for Safe 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 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.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical drug product

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

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

### Magnesium stearate

ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 mg/m³
Sweden OEL - TWAs	5 ma/m³

### Microcrystalline cellulose

ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>
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/m <sup>3</sup>
Latvia OEL - TWA	2 mg/m <sup>3</sup>
OSHA - Final PELS - TWAs:	15 mg/m <sup>3</sup>
Portugal OEL - TWA	10 mg/m <sup>3</sup>
Romania OEL - TWA	10 mg/m <sup>3</sup>
Russia OEL - TWA	6 mg/m <sup>3</sup>
Spain OEL - TWA	10 mg/m <sup>3</sup>
Switzerland OEL -TWAs	3 mg/m <sup>3</sup>
Vietnam OEL - TWAs	10 mg/m <sup>3</sup>
	5 mg/m <sup>3</sup>

## Polyethylene glycol

Austria OEL - MAKs	1000 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	1000 mg/m <sup>3</sup>

Germany (DFG) - MAK

1000 mg/m³ average molecular weight 200-600

Slovakia OEL - TWA 1000 mg/m³
Slovenia OEL - TWA 1000 mg/m³
Switzerland OEL -TWAs 1000 ppm

### Starch

ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>
Australia TWA	10 mg/m <sup>3</sup>
Belgium OEL - TWA	10 mg/m <sup>3</sup>
Bulgaria OEL - TWA	10.0 mg/m <sup>3</sup>
Czech Republic OEL - TWA	4.0 mg/m <sup>3</sup>
Greece OEL - TWA	10 mg/m <sup>3</sup>
	5 mg/m <sup>3</sup>
Ireland OEL - TWAs	10 mg/m <sup>3</sup>
	4 mg/m <sup>3</sup>
OSHA - Final PELS - TWAs:	15 mg/m <sup>3</sup>
Portugal OEL - TWA	10 mg/m <sup>3</sup>
Slovakia OEL - TWA	4 mg/m <sup>3</sup>
Spain OEL - TWA	10 mg/m <sup>3</sup>
Switzerland OEL -TWAs	3 mg/m <sup>3</sup>

## Titanium dioxide

ACGIH Threshold Limit Value (TWA) 10 mg/m<sup>3</sup>

D700000

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Listed **ACGIH OELs - Notice of Intended Changes** Australia TWA 10 mg/m<sup>3</sup> Austria OEL - MAKs 5 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> **Belgium OEL - TWA Bulgaria OEL - TWA** 10.0 mg/m<sup>3</sup> **Denmark OEL - TWA** 6 mg/m<sup>3</sup> 5 mg/m<sup>3</sup> Estonia OEL - TWA France OEL - TWA 10 mg/m<sup>3</sup> 10 ma/m<sup>3</sup> **Greece OEL - TWA**  $5 \text{ mg/m}^3$ 

Ireland OEL - TWAs 10 mg/m³ 4 mg/m³

Latvia OEL - TWA 10 mg/m<sup>3</sup> Lithuania OEL - TWA 5 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 15 mg/m<sup>3</sup> **Poland OEL - TWA** 10.0 mg/m<sup>3</sup> Portugal OEL - TWA 10 mg/m<sup>3</sup> Romania OEL - TWA 10 mg/m<sup>3</sup> Russia OEL - TWA 10 mg/m<sup>3</sup> Spain OEL - TWA 10 mg/m<sup>3</sup> 5 mg/m<sup>3</sup> Sweden OEL - TWAs 3 mg/m<sup>3</sup> **Switzerland OEL -TWAs** 6 mg/m<sup>3</sup> Vietnam OEL - TWAs

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

#### **Miglitol**

Pfizer Occupational Exposure OEB 2 (control exposure to the range of 100ug/m³ to < 1000ug/m³)

Band (OEB):

**Exposure Controls** 

**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.

Personal Protective Refer to ap

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: Tablets Color: White

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:

Water Solubility:

No data available

No data available

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

pH: No data available.

Melting/Freezing Point (°C): No data available

Boiling Point (°C): No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

**Miglitol** 

No data available

Starch

No data available

Microcrystalline cellulose

No data available

Magnesium stearate

No data available

Hydroxypropyl methylcellulose

No data available
Polyethylene glycol
No data available
Titanium dioxide
No data available
Polysorbate 80

Polysorbate 80 No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available Conditions to Avoid: None known

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

Hazardous Decomposition No data available

**Products:** 

### 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

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

ingredients.

**Short Term:**Not an eye irritant, Not a skin irritant, Not acutely toxic (based on components). **Long Term:**Animal studies have shown a potential to cause adverse effects on the fetus.

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### 11. TOXICOLOGICAL INFORMATION

**Known Clinical Effects:** 

The most common adverse effects reported with clinical use were diarrhea, nausea, rash, and vomiting.

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

#### Miglitol

Rat Oral LD50 > 10,000 mg/kg Dog Oral LD50 > 10,000mg/kg

### 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>

### Hydroxypropyl methylcellulose

Rat Oral LD50 > 10,000 mg/kg

#### Titanium dioxide

Rat Oral LD50 > 7500 mg/kg Rat Subcutaneous LD50 50 mg/kg

#### Polysorbate 80

Rat Oral LD50 25 g/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)

### **Miglitol**

Eye Irritation Non-irritating Skin Irritation Non-irritating

#### Microcrystalline cellulose

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

### Polyethylene glycol

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

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

## **Miglitol**

Reproductive & Fertility Rat Oral 300 mg/kg NOAEL Fertility

Embryo / Fetal Development Rat Oral 150 mg/kg/day NOAEL Not Teratogenic, Fetotoxicity Embryo / Fetal Development Rabbit Oral 45 mg/kg/day NOAEL Not Teratogenic, Fetotoxicity

Peri-/Postnatal Development Rat Oral 100 mg/kg/day NOAEL Fetotoxicity

PZ00220

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### 11. TOXICOLOGICAL INFORMATION

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

**Miglitol** 

Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative

In Vivo Micronucleus Mouse Negative

Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells Negative

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

Miglitol

21 Month(s) Mouse Oral 500 mg/kg NOAEL Not carcinogenic 2 Year(s) Rat Oral 500 mg/kg NOAEL Not carcinogenic

Carcinogen Status: See below

Titanium dioxide

IARC: Group 2B (Possibly Carcinogenic to Humans)

## 12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

**Toxicity:** No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

## 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.

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## 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications WHMIS hazard class:

D2a very toxic materials



Hydroxypropyl methylcellulose

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Standard for the Uniform Scheduling

Not Listed

Not Listed

Present

Present

Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

Magnesium stearate

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

209-150-3

Microcrystalline cellulose

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Not Listed

Not Listed

Present

Present

REACH - Annex XVII - Restrictions on Certain Use restricted. See item 9[f]. powder

**Dangerous Substances:** 

EU EINECS/ELINCS List 232-674-9

**Miglitol** 

CERCLA/SARA 313 Emission reportingNot ListedCalifornia Proposition 65Not ListedStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 276-661-6

Polyethylene glycol

CERCLA/SARA 313 Emission reporting

California Proposition 65

Not Listed Inventory - United States TSCA - Sect. 8(b)

Present

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## 15. REGULATORY INFORMATION

Australia (AICS): Present
Standard for the Uniform Scheduling Schedule 3

for Drugs and Poisons:

EU EINECS/ELINCS List Not Listed

Polysorbate 80

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Starch

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Present

Present

obligations of Register:

EU EINECS/ELINCS List 232-679-6

Titanium dioxide

CERCLA/SARA 313 Emission reporting Not Listed

California Proposition 65 carcinogen initial date 9/2/11 airborne, unbound particles of

respirable size

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

Australia (AICS):

EU EINECS/ELINCS List

Present
236-675-5

### 16. OTHER INFORMATION

## Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child

Toxic to Reproduction: Category 3

R63 - Possible risk of harm to the unborn child.

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

**Reasons for Revision:** Updated Section 2 - Hazard Identification. Updated Section 5 - Fire Fighting Measures.

Updated Section 6 - Accidental Release Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. New data sheet. Updated Section 7 - Handling and Storage. Updated Section 15 - Regulatory Information. Updated Section 14 - Transport

Information. Updated Section 16 - Other Information.

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

Prepared by:

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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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