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

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**Emergency telephone number:** CHEMTREC (24 hours): 1-800-424-9300

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**Emergency telephone number:** 

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

**Material Name: Glyburide Tablets** 

**Trade Name:** Micronase **Chemical Family:** Mixture

Intended Use: Pharmaceutical product used as antidiabetic agent.

## 2. HAZARDS IDENTIFICATION

Appearance: White, Pink, and Blue round tablets.

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

**Additional Hazard Information:** 

**Short Term:** Antidiabetic drug: has blood-sugar lowering properties

Long Term: Individuals sensitive to this chemical or other materials in its chemical class may develop

allergic reactions.

**Known Clinical Effects:** Adverse effects associated with therapeutic use include decreased blood sugar

(hypoglycemia), yellowing of the skin, eyes, and mucous membranes (jaundice), nausea, epigastric discomfort, heartburn and skin reaction. Clinical use has caused effects on the

cardiovascular system, including cardiovascular mortality.

Not classified **EU Indication of danger:** 

**Australian Hazard Classification** 

(NOHSC):

Non-Hazardous Substance. Non-Dangerous Goods.

This document has been prepared in accordance with standards for workplace safety, which Note:

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

### Hazardous

		Tiuzui uous						
CAS Number	EU EINECS/ELINCS List	Classification	%					
10238-21-8	233-570-6	Not Listed	1.25mg; 2.5mg; 5mg ***					
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**MICRONASE** 

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**COMPOSITION/INFORMATION ON INGREDIENTS** 9004-34-6 Microcrystalline cellulose 232-674-9 Not Listed 14807-96-6 Talc (non-asbestiform) 238-877-9 Not Listed Colloidal silicon dioxide 7631-86-9 231-545-4 Not Listed Magnesium stearate 557-04-0 209-150-3 Not Listed

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Dibasic calcium phosphate, dihydrate USP	7789-77-7	Not listed	Not Listed	*
Sodium alginate	9005-38-3	Not listed	Not Listed	*

Additional Information: \* Proprietary

\*\*\* per tablet/capsule/lozenge/suppository

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

safety.

### 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.

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.

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**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 thoroughly after handling. 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.

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.

Glyburide

Pfizer OEL TWA-8 Hr: 1.0μg/m<sup>3</sup>

Microcrystalline cellulose

10 mg/m<sup>3</sup> TWA **ACGIH Threshold Limit Value (TWA) Australia TWA** 10 mg/m<sup>3</sup> **Belgium OEL - TWA** Listed Estonia OEL - TWA Listed France OEL - TWA Listed Listed **Ireland OEL - TWAs** Latvia OEL - TWA Listed 15 mg/m3 total **OSHA - Final PELS - TWAs:**  $5 \text{ mg/m}^3$ 

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

Talc (non-asbestiform)

ACGIH Threshold Limit Value (TWA) 2 mg/m³ TWA

ACGIH OELs - Notice of Intended Changes Listed

**Australia TWA** 2.5 mg/m³ containing no asbestos fibers

**Austria OEL - MAKs** Listed **Belgium OEL - TWA** Listed **Bulgaria OEL - TWA** Listed Czech Republic OEL - TWA Listed **Denmark OEL - TWA** Listed **Estonia OEL - TWA** Listed **Finland OEL - TWA** Listed **Greece OEL - TWA** Listed **Hungary OEL - TWA** Listed Listed Ireland OEL - TWAs **Netherlands OEL - TWA** Listed

OSHA - Final PELs - Table Z-3 Mineral D: TWA-20 mppcf

Poland OEL - TWA Listed

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Portugal OEL - TWA Listed
Romania OEL - TWA Listed
Slovenia OEL - TWA Listed
Spain OEL - TWA Listed
Sweden OEL - TWAs Listed

Colloidal silicon dioxide

Australia TWA 2 mg/m³
Austria OEL - MAKs Listed
Czech Republic OEL - TWA Listed
Estonia OEL - TWA Listed
Germany - TRGS 900 - TWAs 4 mg/m³
Germany (DFG) - MAK 4 mg/m³ MAK
Ireland OEL - TWAs Listed

Listed Latvia OEL - TWA Listed

OSHA - Final PELs - Table Z-3 Mineral D: - (80)/(% SiO2) mg/m³ TWA

TWA-20 mppcf

Slovenia OEL - TWA Listed

Dibasic calcium phosphate, dihydrate USP

Latvia OEL - TWA Listed

Magnesium stearate

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

Analytical Method: Analytical method available for glyburide. 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: Not required for the normal use of this product. 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Tablets Color: White, Pink, Blue.

Molecular Formula: Mixture Molecular Weight: Mixture

## 10. STABILITY AND REACTIVITY

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

Conditions to Avoid: None known

**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)

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

Talc (non-asbestiform)

Rat Oral LD50 > 1600 mg/kg

Glyburide

Rat Oral LD50 >3200 mg/kg Mouse Oral LD50 >1500 mg/kg Rabbit Oral LD50 >10000 mg/kg Guinea Pig Oral LD50 >15000 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

Glyburide

Eye Irritation Rabbit No effect Skin Irritation Not specified No effect

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

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## 11. TOXICOLOGICAL INFORMATION

#### Glyburide

18 Month(s) Rat Oral 0.12 mg/kg/day LOAEL Endocrine system

12 Month(s) Rat Oral 5.2 mg/kg/day NOAEL No effects at maximum dose 30 Day(s) Rat Oral 300 mg/kg/day NOAEL No effects at maximum dose 45 Day(s) Rat Oral 2,000 mg/kg/day NOAEL No effects at maximum dose 6 Week(s) Dog Inhalation 1.7 ug/kg NOAEL No effects at maximum dose

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

#### **Glyburide**

Embryo / Fetal Development Oral 100 mg/kg/day LOAEL Not teratogenic Rat Embryo / Fetal Development Rabbit 100 mg/kg/day LOAEL Not Teratogenic

No effects at maximum dose Reproductive & Fertility 100 mg/kg/day Oral NOAEL

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

## Glyburide

Bacterial Mutagenicity (Ames) Salmonella Negative Chromosome Aberration Hamster Lung Cells Negative

In Vivo Micronucleus Mouse Negative

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

#### **Glyburide**

3000 mg/kg/day 2 Year(s) Mouse Oral NOAEL Not carcinogenic 18 Month(s) Rat Oral 300 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.

See below

Colloidal silicon dioxide

IARC: Group 3

Talc (non-asbestiform)

IARC: Group 3

## 12. ECOLOGICAL INFORMATION

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

should be avoided.

## 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. 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.

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## 14. TRANSPORT INFORMATION

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

## 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.

## **Glyburide**

Australia (AICS): Listed
Standard for the Uniform Scheduling Schedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 233-570-6

Microcrystalline cellulose

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

Australia (AICS):

EU EINECS/ELINCS List

232-674-9

Talc (non-asbestiform)

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

Australia (AICS):

EU EINECS/ELINCS List

238-877-9

Colloidal silicon dioxide

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

Australia (AICS):

EU EINECS/ELINCS List

231-545-4

Dibasic calcium phosphate, dihydrate USP

Australia (AICS): Listed

Sodium alginate

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

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## 15. REGULATORY INFORMATION

Australia (AICS): Listed

Magnesium stearate

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

Australia (AICS):

EU EINECS/ELINCS List

209-150-3

# **16. OTHER INFORMATION**

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

**Reasons for Revision:** Updated Section 11 - Toxicology Information.

Prepared by: Toxicology and 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**