

Pfizer Ltd

Ramsgate Road

Sandwich, Kent

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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

Material Name: Triazolam Tablets

Trade Name: HALCION; Semese

Chemical Family: Mixture

Intended Use: Pharmaceutical product used for insomnia.

2. HAZARDS IDENTIFICATION

Appearance: White, blue tablets.

Signal Word: WARNING

Statement of Hazard: Suspected of damaging the unborn child.

May cause harm to breastfed babies.

Short Term: Acute toxicity following ingestion is not expected. Accidental ingestion may cause effects

similar to those seen in clinical use.

Long Term: Animal studies indicate that this material may cause adverse effects on the heart, liver, lungs,

central nervous system.

Known Clinical Effects: Adverse effects most commonly reported in clinical use include fatigue, clumsy motion of

limbs/trunk (ataxia), state of intense good feeling (euphoria), incoordination. Other less common effects include hallucinations, delirium, amnesia, addiction, impairment of motor and cognitive skills. The effects are reversible in nature. All observed adverse effects were

cognitive skills. The effects are reversible in nature. All observed adverse effects were consistent with the sedative action of this compound. Secreted in human breast milk.

EU Indication of danger: Toxic to Reproduction: Category 2

EU Hazard Symbols:



EU Risk Phrases:

R61 - May cause harm to the unborn child.

R64 - May cause harm to breastfed babies. Hazardous Substance. Non-Dangerous Goods.

Australian Hazard Classification

(NOHSC):

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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

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Triazolam	28911-01-5	249-307-3	R64	< 77
			Repr. Cat.2;R61	
Corn Starch	9005-25-8	232-679-6	Not Listed	*
Microcrystalline cellulose	9004-34-6	232-674-9	Not Listed	*
Magnesium stearate	557-04-0	209-150-3	Not Listed	*
Silicon dioxide, NF	7631-86-9	231-545-4	Not Listed	*
		EEC No. 418-260-2		

Ingredient	CAS Number	EU EINECS/ELINCS List	Classification	%
Docusate Sodium	577-11-7	209-406-4	Not Listed	*
Lactose	63-42-3	200-559-2	Not Listed	*
Sodium benzoate	532-32-1	208-534-8	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: Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride and

other chlorine-containing compounds.

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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.

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.

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.

Triazolam

Pfizer OEL TWA-8 Hr: 0.8µg/m³

Corn Starch

 ACGIH Threshold Limit Value (TWA)
 = 10 mg/m³ TWA

 Australia TWA
 = 10 mg/m³ TWA

 Belgium OEL - TWA
 = 10 mg/m³ TWA

 Bulgaria OEL - TWA
 = 10.0 mg/m³ TWA

 Czech Republic OEL - TWA
 = 4.0 mg/m³ TWA

 Greece OEL - TWA
 = 10 mg/m³ TWA

 = 5 mg/m³ TWA

= 10 mg/m³ TWA = 4 mg/m³ TWA

OSHA - Final PELS - TWAs: = 15 mg/m³ TWA total

= 5 mg/m³ TWA = 10 mg/m³ TWA = 10 mg/m³ VLA-ED

Portugal OEL - TWA = 10 m Spain OEL - TWA = 10 m

Microcrystalline cellulose

Ireland OEL - TWAs

ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA
Australia TWA = 10 mg/m³ TWA
Belgium OEL - TWA = 10 mg/m³ TWA
Estonia OEL - TWA = 10 mg/m³ TWA

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France OEL - TWA = $10 \text{ mg/m}^3 \text{ VME}$ Ireland OEL - TWAs = $10 \text{ mg/m}^3 \text{ TWA}$ = $4 \text{ mg/m}^3 \text{ TWA}$

Latvia OEL - TWA = 2 mg/m³ TWA

OSHA - Final PELS - TWAs: = $15 \text{ mg/m}^3 \text{ TWA}$ total = $5 \text{ mg/m}^3 \text{ TWA}$

 Portugal OEL - TWA
 = 10 mg/m³ TWA

 Romania OEL - TWA
 = 10 mg/m³ TWA

 Spain OEL - TWA
 = 10 mg/m³ VLA-ED

Magnesium stearate

ACGIH Threshold Limit Value (TWA) = 10 mg/m³ TWA except stearates of toxic metals

Australia TWA = 10 mg/m³ TWA
Belgium OEL - TWA = 10 mg/m³ TWA

Ireland OEL - TWAs = 10 mg/m³ TWA except lead stearate

Lithuania OEL - TWA = 3 mg/m³ IPRV

Portugal OEL - TWA = 10 mg/m³ TWA does not include stearates of toxic metals **Spain OEL - TWA** = 10 mg/m³ VLA-ED not including stearates of toxic metals

Sweden OEL - TWAs = 5 mg/m³ LLV

Silicon dioxide, NF

 Australia TWA
 = 2 mg/m³ TWA

 Austria OEL - MAKs
 = 4 mg/m³ MAK

 Czech Republic OEL - TWA
 = 0.1 mg/m³ TWA

 Estonia OEL - TWA
 = 2 mg/m³ TWA

Germany - TRGS 900 - TWAs = 2 mg/m³ TWA

Ireland OEL - TWAs = 4 mg/m³ TWA

= 2.4 mg/m³ TWA

= 2.4 mg/m³ TWA

= 6 mg/m³ TWA

Latvia OEL - TWA = 1 mg/m³ TWA containing more than 70% SiO2 (quartz) = 2 mg/m³ TWA containing 10-70% SiO2 (granite, mica)

= 4 mg/m³ TWA containing 2-10% SiO2 (copper sulfate ores)

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

= 20 mppcf TWA

Slovakia OEL - TWA = 4.0 mg/m³ TWA

Slovenia OEL - TWA = 4 mg/m³ TWA

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

Analytical Method: Analytical method available for triazolam. 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.

Personal Protective Equipment:

Hands: Wear impervious gloves if skin contact is possible. **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:

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Physical State:TabletColor:White, blue.Molecular Formula:MixtureMolecular Weight:Mixture

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to Avoid: None known

Incompatible Materials: No reactions identified

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)

Lactose

Rat Oral LD50 > 10 g/kg

Sodium benzoate

Rat Oral LD50 4,070 mg/kg Mouse Oral LD50 1600 mg/kg

Microcrystalline cellulose

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

Triazolam

Rat Oral LD 50 >5000 mg/kg

Mouse Oral LD 50 > 5,000 mg/kg

Rat Intraperitoneal LD 50 >5,000 mg/kg

Mouse Intraperitoneal LD 50 1,625 mg/kg

Magnesium stearate

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

Silicon dioxide, NF

Rat Oral LD50 10 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)

Microcrystalline cellulose

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

Triazolam

Eye Irritation Rabbit Mild Skin Irritation Rabbit No effect

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

Sodium benzoate

Oral 10 Dav(s) Rat 27370 mg/kg LOAEL Liver. Blood

10 Day(s) Oral Liver, Kidney, Blood, Ureter, Bladder Mouse 45 g/kg LOAEL

Triazolam

1 Year(s) Dog Oral 3 mg/kg/day LOAEL Central nervous system, Liver

Rat Oral 1 mg/kg/day NOAEL Liver, Lungs, Heart 1 Year(s) 2 Year(s) Rat Oral 0.5 mg/kg/day NOAEL None identified

3 Month(s) Dog Oral 100 mg/kg/day LOAEL Central Nervous System, Liver

Central Nervous System 3 Month(s) Rat Oral 300 mg/kg/day LOAEL

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

Sodium benzoate

Embryo / Fetal Development Rat Oral 44 g/kg LOEL Developmental toxicity

Triazolam

Embryo / Fetal Development Rat Oral 30 mg/kg/day **NOAEL** Not teratogenic Embryo / Fetal Development Rabbit Oral 30 mg/kg/day NOAEL Not Teratogenic

5 mg/kg/day LOAEL Embryo / Fetal Development Rabbit Oral Not Teratogenic, Fetotoxicity

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

Triazolam

Bacterial Mutagenicity (Ames) Bacteria Negative Direct DNA Damage Not specified Negative

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

Triazolam

2 Year(s) Mouse Oral, in feed 80 NOAEL Not carcinogenic 2 Year(s) Rat Oral, in feed 100 **NOAEL** Not carcinogenic

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

See below

Silicon dioxide, NF

IARC: Group 3

12. ECOLOGICAL INFORMATION

Environmental Overview: Environmental properties of the formulation have not been thoroughly investigated. Releases

to the environment should be avoided.

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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.

15. REGULATORY INFORMATION

EU Symbol:

EU Indication of danger: Toxic to Reproduction: Category 2

EU Risk Phrases:

R61 - May cause harm to the unborn child. R64 - May cause harm to breastfed babies.

EU Safety Phrases:

S36/37 - Wear suitable protective clothing and gloves.

S45 - In case of accident or if you feel unwell seek medical advice immediately (show the label

where possible).

S53 - Avoid exposure - obtain special instructions before use.

OSHA Label:

WARNING

Suspected of damaging the unborn child. May cause harm to breastfed babies.

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



Triazolam

California Proposition 65 developmental toxicity, initial date 4/1/90

Drug Enforcement Administration:Schedule IVStandard for the Uniform SchedulingSchedule 4

for Drugs and Poisons:

EU EINECS/ELINCS List 249-307-3

Corn Starch

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

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Australia (AICS): Present
REACH - Annex IV - Exemptions from the Present

obligations of Register:

EU EINECS/ELINCS List 232-679-6

Microcrystalline cellulose

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

Australia (AICS): Present

EU EINECS/ELINCS List 232-674-9

Docusate Sodium

Inventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentEU EINECS/ELINCS List209-406-4

Lactose

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

Australia (AICS):

EU EINECS/ELINCS List

Present
200-559-2

Magnesium stearate

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

Australia (AICS):

Fresent

EU EINECS/ELINCS List

209-150-3

Silicon dioxide, NF

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

Australia (AICS):

EU EINECS/ELINCS List

Present
231-545-4

EEC No. 418-260-2

Sodium benzoate

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

Australia (AICS):

EU EINECS/ELINCS List

Present
208-534-8

Additional Information: US DEA Schedule IV substance

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R61 - May cause harm to the unborn child. R64 - May cause harm to breastfed babies.

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

data sheets for individual ingredients.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 7 -

Handling and Storage.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety

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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