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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

## NEXIUM FOR ORAL SUSPENSION

Details of the supplier of the safety data sheet : ASTRAZENECA PTY LTD      Emergency Telephone +44 (0) 1235 239 670  
PO Box 131  
66 Talavera Rd, North Ryde  
NSW 2113  
AUSTRALIA  
+61 2 9978 3500

SafetyDataSheets.AlderleyPark@astrazeneca.com

### Alternative Names

Pellets for Esomeprazole sachets for Delayed-Release Oral Suspension (2.5mg, 5mg, 10mg, 20 and 40mg)  
CAS No. : Not applicable

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Symptomatic treatment of gastro-oesophageal reflux disease (GERD)

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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin sensitisation : Category 1

### GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements :

#### Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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**Other hazards which do not result in classification**

May cause irritation to skin, eyes and respiratory system.

The product may form flammable dust clouds in air, if dust from pellets is allowed to accumulate and if it is dispersed.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Celluloses	9004-34-6	1 -1.5
Esomeprazole Magnesium Trihydrate	217087-09-7	0.2 -1.4

**SECTION 4. FIRST AID MEASURES**

- If inhaled : Remove patient from exposure.  
Obtain medical attention if ill effects occur.
- In case of skin contact : Remove contaminated clothing.  
Wash skin with soap and water.  
If symptoms (irritation or blistering) occur obtain medical attention.
- In case of eye contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.  
Obtain medical attention.
- If swallowed : Wash out mouth with water and give 200-300ml of water to drink.  
Do NOT induce vomiting as a First-Aid measure.  
Obtain medical attention if ill effects occur.
- Most important symptoms and effects, both acute and delayed : Refer to sections 2 and 11  
May cause an allergic skin reaction.
- Notes to physician : Symptomatic treatment and supportive therapy as indicated.  
For further detail consult the prescribing information.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : water spray, foam, dry powder or CO<sub>2</sub>.
- Unsuitable extinguishing media : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- Specific hazards during firefighting : If involved in a fire, it may burn and emit noxious and toxic fumes.
- Special protective equipment for firefighters : A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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- Personal precautions, protective equipment and emergency procedures : Avoid dispersal of dust in the air. Ensure suitable personal protection during removal of spillages. See Section 8.
- Environmental precautions : Prevent entry into drains, sewers or watercourses.
- Methods and materials for containment and cleaning up : Transfer spilled pellets to a suitable container for disposal. Wash the spillage area with water.

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes. Wash hands after use. Minimize dust generation and accumulation. The product may form flammable dust clouds in air, if dust from pellets is allowed to accumulate and if it is dispersed.
- Conditions for safe storage : Keep container tightly closed.
- Recommended storage temperature : < 30 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Celluloses	9004-34-6	TWA	10 mg/m <sup>3</sup>	AU OEL
	Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica			
		TWA	10 mg/m <sup>3</sup>	ACGIH
Esomeprazole Magnesium Trihydrate	217087-09-7	TWA	0.1 mg/m <sup>3</sup>	COM; HYG

- Engineering measures** : The specific controls will depend on local circumstances and should be based on the risk assessment. Appropriate controls to reduce exposure may include engineering controls, for example ventilation, procedural controls and the use of personal protection equipment.

Prevent entry into drains, sewers or watercourses.

### Personal protective equipment

- Respiratory protection : Use a negative pressure air purifying respirator (half face mask) with filter class P3 if the risk assessment does not support the selection of other protection.
- Eye protection : Use safety glasses to protect against direct contact with the substance if the risk assessment does not support the selection of other protection.

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- Skin and body protection : Use impervious clothing to protect against direct contact with the substance if the risk assessment does not support the selection of other protection. Use impervious protective gloves to protect against direct contact with the substance. If the substance is dissolved or wetted use a glove material that is resistant to the solvent/liquid.
- Protective measures : Decisions about whether the use of personal protective equipment (PPE) is appropriate as part of the control strategy should be based on the workplace risk assessment and should take account of local legislative requirements for selection and use. There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, external environmental conditions, the task, the user etc. All the information above should not be used in isolation and should be considered in the context of the workplace risk assessment on a case by case basis.

The recommended personal protective equipment (PPE) is based on preventing the potential adverse health effects from exposure to the active pharmaceutical ingredient (API). The risk of exposure to the API in the formulation/product needs to be taken into consideration.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : pellets, granules
- Colour : No data available
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/range : No data available
- Initial boiling point and boiling range : Not applicable
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : No data available
- Upper explosion limit / Upper flammability limit : Not applicable
- Lower explosion limit / Lower flammability limit : Not applicable

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Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

    Viscosity, dynamic : Not applicable

    Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not applicable

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazard under normal conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : No conditions producing hazardous situations known.

Incompatible materials : Acids  
(decomposes)

Hazardous decomposition products : No hazardous decomposition products are known.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Acute toxicity

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### **Components:**

**Esomeprazole Magnesium Trihydrate:**

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Acute oral toxicity : Evident toxicity with mortality in rats at a dose of: 480 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Remarks: Information refers to  
Esomeprazole

Acute inhalation toxicity : Remarks: May cause effects as described under single exposure.(STOT)

Acute dermal toxicity : Remarks: No information available.

### 11.2 Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Result : Mild skin irritation

### 11.3 Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Remarks : May cause eye irritation.  
May cause conjunctivitis.

### 11.4 Respiratory or skin sensitisation

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Result : May cause sensitisation by skin contact.

Remarks : Omeprazole:  
It is an extreme skin sensitiser in animal tests.  
Many cases of occupational skin sensitisation have been reported.

#### **Chronic toxicity**

### 11.5 Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Germ cell mutagenicity - Assessment : The substance is not considered to be genotoxic.

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### 11.6 Carcinogenicity

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Carcinogenicity - Assessment : The substance is not considered to be carcinogenic.

### 11.7 Reproductive toxicity

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Reproductive toxicity - Assessment : There is no evidence of reprotoxicity in animal tests.

### 11.8 STOT - single exposure

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Exposure routes : Oral, Inhalation  
Remarks : May cause nausea and vomiting.  
Rare cases of hypersensitivity (including allergic reactions) and CNS-effects (including dizziness and muscle jerks) have been reported in patients.

Exposure routes : Inhalation  
Remarks : Dust may be irritant to the respiratory tract.

### 11.9 STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **Esomeprazole Magnesium Trihydrate:**

Exposure routes : Oral  
Target Organs : Stomach  
Remarks : Repeated exposure may produce adverse effects.  
These effects are derived from studies in animals.

Remarks : Common side effects reported from patients include headache, gastrointestinal disorders, sinusitis and respiratory infection.  
May cause effects as described under single exposure.(STOT)

### 11.10 Aspiration toxicity

Not classified based on available information.

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**Components:****Esomeprazole Magnesium Trihydrate:**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Esomeprazole Magnesium Trihydrate:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 42 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: (Esomeprazole sodium)
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: (Esomeprazole sodium)
- Toxicity to algae : EbC50 (green algae): 19 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: (Esomeprazole sodium)
- NOEC (green algae): 8.4 mg/l  
Exposure time: 72 h  
Test Type: growth rate  
Method: OECD Test Guideline 201  
Remarks: (Esomeprazole sodium)
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 1 mg/l  
Exposure time: 32 d  
Method: OECD Test Guideline 210  
Remarks: Information refers to Esomeprazole sodium
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Information refers to Esomeprazole sodium
- Toxicity to microorganisms : NOEC (activated sludge): 100 mg/l  
Exposure time: 3 h  
Remarks: There is no evidence of inhibition to the aerobic treatment process at a concentration of 100 mg/l.

**Persistence and degradability****Components:****Esomeprazole Magnesium Trihydrate:**

Biodegradability : Result: Not rapidly biodegradable



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Biodegradation: < 0.6 %  
Method: OECD Test Guideline 301C

## Bioaccumulative potential

### Components:

#### **Esomeprazole Magnesium Trihydrate:**

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

## Mobility in soil

### Components:

#### **Esomeprazole Magnesium Trihydrate:**

Mobility : Remarks: Water solubility  $\geq 1$  mg/l.

Distribution among environmental compartments : Remarks: No information available.

## Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Disposal should be in accordance with local, state or national legislation.  
Waste, even small quantities, should never be poured down drains, sewers or water courses.  
Dispose of contents/ container to an approved incineration plant.

Contaminated packaging : Empty container will retain product residue. Observe all hazard precautions.

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## SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

In order to comply with legal duties it is necessary to consult local and national legislation.

Standard for the Uniform            : No poison schedule number allocated  
Scheduling of Medicines and  
Poisons

Prohibition/Licensing Requirements            : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

**The components of this product are reported in the following inventories:**

REACH    : Not in compliance with the inventory

DSL    : This product contains the following components that are not on the Canadian DSL nor NDSL.  
  
    Esomeprazole Magnesium Trihydrate

AICS    : Not in compliance with the inventory

ENCS    : Not in compliance with the inventory

ISHL    : Not in compliance with the inventory

IECSC     : Not in compliance with the inventory

TCSI     : Not in compliance with the inventory

TSCA    : Not On TSCA Inventory

**SECTION 16. OTHER INFORMATION****Further information**

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Other information                            : New significant SHE information:  
3. Composition/information on ingredients  
8. New Occupational Exposure Limit Value  
Minor changes:  
9  
10  
11  
12  
15

Date format                                    : dd.mm.yyyy

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## Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average  
AU OEL / TWA : Exposure standard - time weighted average

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; COM - In-house occupational exposure limit; CPR - Controlled Products Regulations; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HYG - Analytical method for occupational exposure monitoring; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; Sen - Capable of causing respiratory sensitization; Sk - Can be absorbed through skin, thus contributing to systemic effects; STEL - Short-term exposure limit 15-minutes time-weighted average; TLV - Threshold Limit Value (ACGIH); TLV-C - Threshold Limit Value Ceiling limit (ACGIH); TSCA - Toxic Substances Control Act (United States); TWA - Long-term exposure limit 8h time-weighted average; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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