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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

#### TAGRISSO TABLETS

Details of the supplier of the safety data sheet

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

SafetyDataSheets.AlderleyPark@astrazeneca.com

#### Alternative Names

AZD9291 Tablets  
AZD9291 Mesylate tablets  
Osimertinib tablets  
Osimertinib mesylate tablets  
CAS No. : Not applicable

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

Use of the Substance/Mixture : Potential anti-cancer agent

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## SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin sensitisation : Category 1  
Reproductive toxicity : Category 2  
Specific target organ toxicity - repeated exposure (Oral) : Category 1 (Reproductive organs, Eyes, Gastrointestinal tract, Bone marrow, Skin, thymus, lymph node)  
Short-term (acute) aquatic hazard : Category 2  
Long-term (chronic) aquatic hazard : Category 1

#### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs (Reproductive organs, Eyes, Gastrointestinal tract, Bone marrow, Skin, thymus, lymph node) through prolonged or repeated exposure if swallowed.

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H401 Toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P391 Collect spillage.

**Disposal:**

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

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

Potentially irritant to the eye.

See Section 11.

The product may form flammable dust clouds in air, if dust from crushed tablets is allowed to accumulate.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Celluloses	9004-34-6	19.2
Osimertinib	1421373-66-1	18.3

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## SECTION 4. FIRST AID MEASURES

If inhaled : Remove patient from exposure.  
Obtain medical attention if ill effects occur.

In case of skin contact : Wash skin with soap and water.

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 ill effects remain.

If swallowed : Wash out mouth with water and give 200-300ml of water to

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- drink.  
Obtain medical attention if ill effects occur.  
Do NOT induce vomiting as a First-Aid measure.
- Most important symptoms and effects, both acute and delayed : Refer to sections 2 and 11  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.  
Causes damage to organs through prolonged or repeated exposure if swallowed.
- Notes to physician : Symptomatic treatment and supportive therapy as indicated.  
Emergency medical treatment advice varies within different countries.  
For further information consult the Local National Poisons Information Services.
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## 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 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.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.
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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure suitable personal protection during removal of spillages.  
Ensure adequate ventilation.  
Avoid dispersal of dust in the air.  
See Section 8.
- Environmental precautions : Prevent entry into drains, sewers or watercourses.  
Use appropriate containment to avoid environmental contamination.  
Collect spillage.
- Methods and materials for containment and cleaning up : Avoid release to the environment.  
Moisten spillages with water.  
Transfer spilled tablets to a suitable container for disposal.  
Wash the spillage area with water.
- See section 13.
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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Minimize dust generation and accumulation.  
Do not breathe dust.
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Avoid contact with skin and eyes.  
 Avoid release to the environment.  
 Wash hands after use.  
 The product may form flammable dust clouds in air, if dust from crushed tablets is allowed to accumulate.

Conditions for safe storage : Use appropriate containment to avoid environmental contamination.  
 Protect from light.

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
Osimertinib	1421373-66-1	TWA	0.02 mg/m <sup>3</sup>	COM

**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.  
 See Section 6 for environmental precautions.

### Personal protective equipment

Respiratory protection : Use a self-contained breathing apparatus if the risk assessment does not support the selection of other protection.

Eye protection : Use safety glasses to protect against direct contact with the product if the risk assessment does not support the selection of other protection.

Skin and body protection : Use full chemical protective suit to protect against direct contact with the product if the risk assessment does not support the selection of other protection. If the product is dissolved or wetted use a glove material that is resistant to the solvent/liquid. Take note of the information given by the PPE producer/supplier concerning permeability and breakthrough times and special workplace conditions.

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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	:	film-coated tablets
Colour	:	beige
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	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available

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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 : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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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 : Protect from light.  
Stable at room temperature.

Incompatible materials : None known.

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:**

##### **Osimertinib:**

Acute oral toxicity : Evident toxicity in rats at a dose of: 1,000 mg/kg  
Oral maximum tolerated dose: 300 mg/kg

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Assessment: The component/mixture is moderately toxic after single ingestion.

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

Acute dermal toxicity : Remarks: No information available.

### 11.2 Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### **Osimertinib:**

Remarks : Unlikely to be corrosive to the skin.

### 11.3 Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### **Osimertinib:**

Remarks : Potentially irritant to the eye.

### 11.4 Respiratory or skin sensitisation

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

##### **Osimertinib:**

Result : The product is a skin sensitiser, sub-category 1B.  
Remarks : It is a moderate skin sensitiser in animal tests.

#### **Chronic toxicity**

### 11.5 Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **Osimertinib:**

Germ cell mutagenicity - Assessment : There is no evidence of genotoxic potential in in vitro and in vivo tests.

### 11.6 Carcinogenicity

Not classified based on available information.

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**Components:****Osimertinib:**

Carcinogenicity - Assessment : No information available.

**11.7 Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:****Osimertinib:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Adverse effects on male and female reproduction in animals., (including embryoletality).

**11.8 STOT - single exposure**

Not classified based on available information.

**Components:****Osimertinib:**

Remarks : May cause effects as described under repeated exposure.(STOT)

**11.9 STOT - repeated exposure**

Causes damage to organs (Reproductive organs, Eyes, Gastrointestinal tract, Bone marrow, Skin, thymus, lymph node) through prolonged or repeated exposure if swallowed.

**Components:****Osimertinib:**

Exposure routes : Oral  
 Target Organs : Reproductive organs, Eyes, Gastrointestinal tract, Bone marrow, Skin, thymus, lymph node  
 Assessment : Causes damage to organs through prolonged or repeated exposure.  
 Remarks : These effects are derived from studies in animals.  
 Remarks : May cause rash and diarrhea.  
 Based on human experience.

**Repeated dose toxicity****Components:****Osimertinib:**

Species : Rat  
 NOAEL : 1 mg/kg  
 Application Route : Oral  
 Exposure time : 90 d  
 Species : Dog  
 NOAEL : 3 mg/kg



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Application Route : Oral  
Exposure time : 90 d

## 11.10 Aspiration toxicity

Not classified based on available information.

### Components:

#### **Osimertinib:**

No information available.

### **Further information**

#### Product:

Remarks : This health hazard assessment is based on a consideration of the composition of this product.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Product:

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.  
Remarks: This environmental hazard assessment is based on information available on the components of the formulation.

### Components:

#### **Osimertinib:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.23 mg/l  
Exposure time: 72 h  
Test Type: growth rate  
Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 0.014 mg/l  
Exposure time: 72 h  
Test Type: growth rate  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.00075 mg/l  
Exposure time: 32 d  
Test Type: Early-life Stage

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Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.026 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

NOEC (Chironomus riparius (harlequin fly)): 79  
Exposure time: 28 d  
Method: OECD Test Guideline 218

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to microorganisms : EC50 (activated sludge): >= 320 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

## Persistence and degradability

### Components:

#### **Osimertinib:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: The substance is substantially removed in biological treatment processes.

## Bioaccumulative potential

### Components:

#### **Osimertinib:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.  
The substance has low potential for bioaccumulation.

## Mobility in soil

### Components:

#### **Osimertinib:**

Mobility : Remarks: The substance has low mobility in soil.

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.

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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

### ICAO/IATA

UN No. : 3077  
Proper Shipping Name : Environmentally hazardous substance, solid, n.o.s. (OSIMERTINIB)  
Class : 9  
Packing Group : III  
Environmental hazards : Environmentally hazardous

### IMO/IMDG

UN No. : 3077  
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OSIMERTINIB)  
Class : 9  
Packing Group : III  
Marine pollutant : Marine pollutant

### ADR

UN No. : 3077  
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (OSIMERTINIB)  
Class : 9  
Label(s) : 9  
Packing Group : III  
Environmental hazards : Environmentally hazardous

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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.

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

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:**

TCSI : Not listed

TSCA : Substance(s) not listed on TSCA inventory

AICS : Not listed

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

ENCS : Not listed

ISHL : Not listed

KECI : Not listed

IECSC : Not listed

CHINV : Not in compliance with the inventory

REACH : Not in compliance with the inventory

TRINV : Not in compliance with the inventory

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## SECTION 16. OTHER INFORMATION

**Further information**

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Other information : Minor changes:  
15

Date format : dd.mm.yyyy

**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

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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; CHINV - China Inventory; 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); TRINV - Turkey Inventory; 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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