

Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

IMDUR TABLETS

Details of the supplier of the safety data sheet : ASTRAZENECA PTY LTD Emergency Telephone
PO Box 131 +44 (0) 1235 239 670

Alma Road, North Ryde

NSW 2113 AUSTRALIA +61 2 9978 3500

Safety Data Sheets. Alder ley Park@astrazene ca.com

Alternative Names

Imdur Durules prolonged release tablets 30mg, 60mg, 120mg

Isosorbide 5-mononitrate tablets

Monodur Tablets

CAS No. : Not applicable

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

Use of the Substance/Mixture : prophylaxis of angina pectoris

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Absorbed through the lungs, gastrointestinal tract and skin.

May cause headache, flushing of the skin, dizziness, nausea and vomiting, and postural hypotension.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Isosorbide-5-mononitrate	16051-77-7	>= 20 - < 30
Celluloses	9004-34-6	>= 10 - < 20
Magnesium stearate	557-04-0	>= 1 - < 10

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.



SDS Number: Date of last issue: -Version Revision Date:

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

Irrigate with eyewash solution or clean water, holding the In case of eye contact

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

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

Notes to physician Symptomatic treatment and supportive therapy as indicated.

For further information consult the prescribing information.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media water spray, foam, dry powder or CO2.

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

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 Avoid dust generation.

Transfer spilled tablets to a suitable container for disposal.

Wash the spillage area with water.

SECTION 7. HANDLING AND STORAGE

Avoid contact with skin and eyes. Advice on safe handling

Wash hands after use.

Minimize dust generation and accumulation.

The product may form flammable dust clouds in air, if dust

from crushed tablets is allowed to accumulate.

Conditions for safe storage Keep container tightly closed.

Keep away from heat and sources of ignition.

Protect from moisture.



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

Recommended storage

temperature

: < 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters /	Basis		
		exposure)	Permissible			
			concentration			
Isosorbide-5-mononitrate	16051-77-7	TWA	0.05 mg/m3	COM; HYG;		
				Sk		
Celluloses	9004-34-6	TWA	10 mg/m3	AU OEL		
	Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica					
		TWA	10 mg/m3	ACGIH		
Magnesium stearate	557-04-0	TWA	10 mg/m3	AU OEL		
	Further information: This value is for inhalable dust containing no					
	asbestos and	asbestos and < 1% crystalline silica				
		TWA	10 mg/m3	ACGIH		

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

product if the risk assessment does not support the selection

of other protection.

Skin and body protection : Use protective clothing to protect against direct contact with

the product if the risk assessment does not support the selection of other protection. Use impervious protective gloves to protect against direct contact with the product. If the product is dissolved or wetted use a glove material that is

resistant to the solvent/liquid.

Protective measures : 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.

Decisions about whether the use of personal protective



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : film-coated tablets

Colour : 30 mg - pink; 60 mg - yellow; 120 mg - white

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 : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

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



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

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

Minimum ignition energy : 25 - 50 mJ

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 : None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1.1 Acute toxicity

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Acute oral toxicity : LD50 Oral (Rat): 1,300 - 1,600 mg/kg

Acute inhalation toxicity : Remarks: May cause effects as described under single

exposure.(STOT)

Acute dermal toxicity : Remarks: Can be absorbed through skin causing systemic

toxic effects.

11.1.2 Skin corrosion/irritation

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Remarks: Unlikely to cause skin irritation.



Version Revision Date: SDS Number: Date of last issue: -

Date of first issue: 03.08.2017 2.0 03.08.2017 12332

11.1.3 Serious eye damage/eye irritation

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Remarks: May cause slight eye irritation.

11.1.4 Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Remarks: No information available.

11.1.5 Germ cell mutagenicity

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

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

Assessment

11.1.6 Carcinogenicity

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Carcinogenicity -: No evidence of carcinogencity in animal studies.

Assessment

11.1.7 Reproductive toxicity

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Reproductive toxicity -: The substance is not considered to present a reproductive risk

Assessment to man.

11.1.8 STOT - single exposure

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

Exposure routes: Inhalation, Oral, Dermal



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

Remarks: May cause headache, flushing of the skin, dizziness, nausea and vomiting, and postural hypotension.

Side effects reported from patients include myocardial infarction, tachycardia, angina pectoris, palpitation and vasospasm.

11.1.9 STOT - repeated exposure

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

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

11.1.10 Aspiration toxicity

Not classified based on available information.

Components:

Isosorbide-5-mononitrate:

No information available.

Further information

Product:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Remarks: No information on this formulation.

The following information refers to active ingredient:

Isosorbide-5-mononitrate:

Components:

Isosorbide-5-mononitrate:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 120 mg/l

Exposure time: 48 H

Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 120 mg/l

Exposure time: 48 H

Method: OECD Test Guideline 202



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

Persistence and degradability

Components:

Isosorbide-5-mononitrate:

Biodegradability : Remarks: No degradation data available. The substance is

assumed not to be rapidly degradable.

Bioaccumulative potential

Components:

Isosorbide-5-mononitrate:

Bioaccumulation : Remarks: No information available.

Mobility in soil

Components:

Isosorbide-5-mononitrate:

Mobility : Remarks: No information available.

Distribution among

environmental compartments

Remarks: No information available.

Other adverse effects

No data available

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.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

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.

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 listed

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Isosorbide-5-mononitrate 16051-77-7

AICS : Not listed

ENCS : Not listed

ISHL : Not listed

IECSC : Not listed

TCSI : Not listed

TSCA : Not On TSCA Inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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,



Version Revision Date: SDS Number: Date of last issue: -

2.0 03.08.2017 12332 Date of first issue: 03.08.2017

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

Further information

Other information : The Safety Data Sheet has been updated to the SAP EH&S

Standard template., This update affects all Sections of the

Safety Data Sheet.

Minor changes:, 1, 6, 8, 12, 13

Date format : dd.mm.yyyy

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.

AU / EN