

SAFETY DATA SHEET

Print date November 11, 2020

Section 1. Identifications

Product name: Irbesartan Impurity 14

TLC ID: I-0220

Product Use: For laboratory use only. Not for use in humans or animals, drug, household or other use.

Supplier/Manufacturer:

TLC Pharmaceutical Standards Ltd.

130 Pony Drive

Newmarket, ON, L3Y 7B6, Canada

Telephone: (905)-898-3645 Fax: (905)-898-0595

Website: www.tlcstandards.com

Section 2. Hazards identifications

Physical state: Solid

Warning: Toxic if swallowed, inhaled or in contact with skin.

Routes of entry: Inhalation, skin, eyes

GHS classification:

Skin irritation (Category 2)

Serious eye damage/eye irritation (Category 2)

Acute toxicity, oral (Category 4)

Acute toxicity, dermal (Category 4)

Acute toxicity, inhalation (Category 4)

GHS Label elements, including precautionary statements

Pictogram(s):



Signal word: Danger

Hazards statements:

H241 Heating may cause a fire or explosion

H301 Toxic if swallowed

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

Precautionary statements:

P201 Obtain special instructions before use

P242 Use only non-sparking tools

P250 Do not subject to grinding/shock/.../friction.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P235 + P410 Keep cool. Protect from sunlight.

P412 Do not expose to temperatures exceeding 50 °C/ 122 °F.



Section 3. Composition/ Information on Ingredients

CAS No.: 133690-91-2
Molecular Formula: $C_{14}H_{10}N_4$
Molecular Weight: 234.26
Synonyms: 4'-(azidomethyl)-[1,1'-biphenyl]-2-carbonitrile

Section 4. First-aid measures

General

Immediately call a POISON CENTER or doctor/physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Immediately call a POISON CENTER or doctor/physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and Immediately call a POISON CENTER or doctor/physician.

In case of skin contact

Wash off with soap and plenty of water. Immediately call a POISON CENTER or doctor/physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately call a POISON CENTER or doctor/physician.

Section 5. Firefighting measures

Conditions of flammability

Do not subject to grinding/shock/.../friction. Heating may cause a fire or explosion.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions: hydrazoic acid, carbon oxides, sodium oxides, nitrogen oxides

Special firefighting procedures

Wear self-contained breathing apparatus and protective clothing.

Section 6. Accidental release measures

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Method and materials for containment and cleaning up

Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.



Section 7. Handling and storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition. Take measures to prevent the buildup of electrostatic charge.

Storage

Keep refrigerated as specification of Certificate of Analysis. Keep container tightly closed in a dry and well-ventilated place.

Section 8. Exposure controls/personal protection

Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand Protection

Handle with chemical-resistant gloves, solvent-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9. Physical and chemical properties

Physical property: Solid

Colour: White to off-white

Odour: No data available

Density: No data available

Melting Point/Freezing Point(°C): No data available

Flash Point (°C): No data available

Explosive Properties: No data available

Oxidizing Properties: No data available

Water solubility: No data available

Solubility (other solvents): Methanol, DMSO, Acetonitrile

Section 10. Stability and reactivity

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Do not subject to grinding/shock/.../friction, Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to avoid: oxidizing agents.

Hazardous decomposition products: possible products formed under fire conditions: hydrazoic acid, carbon oxides, sodium oxides, nitrogen oxides



Section 11. Toxicological information

Acute toxicity

Oral LD50: No data available. Inhalation.

LC50: No data available.

Dermal LD50: No data available.

Skin Corrosion/Irritation: Toxic if absorbed through skin.

Eyes: Toxic in contact with eyes. May cause serious eye damage

Acute and Chronic Health hazards: TLV: None verified.

Effects of Overexposure: Toxic if swallowed, in contact with skin or if inhaled. May causes eye, respiratory, and skin irritation. May be harmful by inhalation, ingestion, or skin absorption.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Section 12. Ecological information

No data available.

Section 13. Disposal considerations

Product

Follow facility procedures for disposal of organic azides. Organic azide waste should be placed in a separate, explicitly-labeled container designated solely for azide waste. Extra caution must be taken to make certain that azide waste not come in contact with acid.

Contaminated packaging

Follow facility procedures for disposal of organic azides.

Section 14. Transport information

Non-hazardous for transport. IATA - Not regulated

Section 15. Regulatory information

TLV: None verified

Section 16. Other information

This product is not bioactive, not radioactive. It is for R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

TLC Pharmaceutical Standards Ltd. extends no warranties with respect hereto and disclaims all liabilities from reliance thereon. All judgments as to the suitability of the data presented with respect to the use of this product are the responsibility of the purchaser and intended user.