Material Safety Data Sheet

Revision Date: 3/12/2013

1. IDENTIFICATION OF SUBSTANCE:
   Trade name: Aliskiren
   Catalog Number: C2547
   Manufacturer/Supplier: Cellagen Technology LLC
   5940 Pacific Mesa Court, Suite 206, CA 92121, USA
   TEL: (858) 633-8197 FAX: (858) 228-9964

2. COMPOSITION/DATA ON COMPONENTS:
   Chemical Name: (25,45,55,75)-5-Amino-N-{2-carbamoyl-2-methylpropyl}-4-hydroxy-2-isopropyl-7-[4-methoxy-3-(3-methoxypropoxy)benzyl]-8-methylnonanamide
   Synonyms: Aliskiren, Rasilez, Tekturna, CGP60536B
   Hazardous Ingredient: Aliskiren
   CAS Registry Number: 173334-57-1, 173334-58-2
   Molecular Weight: 551.76
   Molecular Formula: C₃₀H₅₃N₃O₆

3. HAZARDS IDENTIFICATION:
   Hazard Description: Substance not fully tested
   May be harmful if swallowed or inhaled. Exposure may cause irritation of the respiratory tract, eye, and skin and allergic respiratory and skin reaction. Handling should only be performed by personnel trained and familiar with handling of potent active pharmaceutical ingredients.

4. FIRST AID MEASURES:
   After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give
   After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a
   After eye contact: check for and remove contact lenses; flush with copious amounts of water; assure adequate
   flushing by separating the eyelids with fingers; call a physician
   After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

5. FIRE FIGHTING MEASURES:
   Suitable extinguishing agents: Small fires by using dry chemical powder. ABC fire extinguishers; Large fires by
   using water spray, fog or foam.
   Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with

6. ACCIDENTAL RELEASE MEASURES:
   Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective
   clothing and heavy rubber gloves.
   Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated

7. HANDLING AND STORAGE:
   Information for safe handling: Handle with care and avoid unnecessary exposure. Avoid inhalation.
   Avoid contact with eyes, skin, and clothing. Use protective equipment to minimize exposure. Avoid prolonged or
   repeated exposure. Handle compound in a laboratory fume hood.
   Storage: store solid and solutions at 4°C or -20°C for longer time storage.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:
Engineering controls: safety shower and eye bath; mechanical exhaust required. 
Personal protective equipment as follows: 
Breathing equipment: NIOSH/MSHA-approved respirator. 
Protection of hands: chemical-resistant rubber gloves. 
Eye protection: chemical safety goggles. 

9. PHYSICAL AND CHEMICAL PROPERTIES: 
Form: Powder or crystalline solid 
Color: White 
Odor: None 
Danger of explosion: None 
Solvent content: None 
Solubility: DMSO 

10. STABILITY AND REACTIVITY: 
Stability: Stable 
Conditions to avoid: Protect from light and heat 
Material to avoid: Acids and bases 
Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides 

11. TOXICOLOGICAL INFORMATION: 
RTECS No: not available 
Acute toxicity: not known 
Primary irritant effect: not known 
On the skin: not known; may be an irritant 
On the eye: not known; may be an irritant 
Effects of Short-Term Exposure: not available 
Effects of Long-Term Exposure: not available 
Sensitization to Product: not available 
Carcinogenicity: not available 
Reproductive Toxicity: not available 
Teratogenicity and Embryotoxicity: not available 
Mutagenicity: not available 

12. ECOLOGICAL INFORMATION: 
Ecotoxicity: not known 

13. DISPOSAL CONSIDERATION: 
Dispose of in accordance with prevailing country, federal, state and local regulations 

14. TRANSPORT INFORMATION: 
DOT: 
Proper shipping name: none 
Non-Hazardous for transport: this substance is considered to be non-hazardous for transport 
IATA class: 
Proper shipping name: none 
Non-Hazardous for transport: this substance is considered to be non-hazardous for transport
15. REGULATIONS:
U.S. Federal Regulations
• SARA 313: Not SARA listed
• Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61): No products were found.
U.S. State Regulations
• California Proposition 65: No products were found.
WHMIS Hazard Class: Not controlled under WHMIS (Canada)

16. OTHER INFORMATION:
The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. Cellagen Technology disclaims all liability for any damage resulting from use of this material. For research use only. Not for use in diagnostic or therapeutic applications.

END OF SAFETY DATA SHEET