Safety Data Sheet

1. Identification of the substance

   Product Name: 2,2’-Azobis[2-(2-imidazolin-2-yl)propane] dihydrochloride
   Synonyms:
   Catalog number: QC-7454
   Supplier: Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-635-8950

2. Hazards identification

   Pictograms

   Single word  Warning
   H302  Harmful if swallowed
   H315  Causes skin irritation
   H319  Causes serious eye irritation
   H335  May cause respiratory irritation
   P261  Avoid breathing dust/fume/gas/mist/vapours/spray
   P305+P351+P338  IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

3. Composition/information on ingredients.

   Ingredient name: 2,2’-Azobis[2-(2-imidazolin-2-yl)propane] dihydrochloride
   CAS number: 27776-21-2

4. First aid measures

   Skin contact: Immediately wash skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention.
   Eye contact: Immediately wash skin with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, seek medical attention.
   Inhalation: Remove to fresh air. In severe cases or if symptoms persist, seek medical attention.
   Ingestion: Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

5. Fire fighting measures

   In the event of a fire involving this material, alone or in combination with other materials, use dry powder or carbon dioxide extinguishers. Protective clothing and self-contained breathing apparatus should be worn.

6. Accidental release measures

   Personal precautions: Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.
   Respiratory precaution: Wear approved mask/respirator
   Hand precaution: Wear suitable gloves/gauntlets
   Skin protection: Wear suitable protective clothing
   Eye protection: Wear suitable eye protection
   Methods for cleaning up: Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal. See section 12.
Environmental precautions: Do not allow material to enter drains or water courses.

7. Handling and storage
   Handling: This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.
   Storage: Store in closed vessels.

8. Exposure Controls / Personal protection
   Engineering Controls: Use only in a chemical fume hood.
   Personal protective equipment: Wear laboratory clothing, chemical-resistant gloves and safety goggles.
   General hygiene measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and chemical properties
   Appearance: Not specified
   Boiling point: No data
   Melting point: No data
   Flash point: No data
   Density: No data
   Molecular formula: C_{12}H_{22}N_{6}·2ClH
   Molecular weight: 323.3

10. Stability and reactivity
    Conditions to avoid: Heat, flames and sparks.
    Materials to avoid: Oxidizing agents.
    Possible hazardous combustion products: Carbon monoxide, nitrogen oxides, hydrogen chloride.

11. Toxicological information
    Acute toxicity: Harmful if swallowed.
    Skin irritation/corrosion: Causes skin irritation.
    Eye damage/irritation: Causes serious eye irritation.
    Respiratory or skin sensitization: May cause respiratory irritation.
    Germ cell mutagenicity: No data available.
    Carcinogenicity: No classification data on carcinogenic properties of this material is available from EPA, IARC, NTP, OSHA or ACGIH.
    Reproductive toxicity: No effects known.
    Specific target organ system toxicity - repeated exposure: No effects known.
    Specific target organ system toxicity - single exposure: No data available.
    Aspiration hazard: No data available.
    Additional information: To the best of our knowledge, the chemical, physical and toxicological properties of this substance have not been thoroughly investigated.

12. Ecological information
    Toxicity: No data available.
    Persistence and degradability: No data available.
    Bioaccumulative potential: No data available.
    Mobility in soil: No data available.
    Result of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.
Other adverse effects: No further relevant information available.

13. Disposal consideration

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

14. Transportation information

No known hazard for air and ground transportation.

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.