

Safety Data Sheet

Product Name: **CBC-5DMR Vet**

Reviewed on: 18 November 2014

1. Identification of Substance:

- **Other means of identification: Catalog Number:** N/A
Components: Tubes contain < 0.1% Sodium azide, < 0.1% Cycloheximide, < 0.5% Potassium Hydroxide
- **GHS product identifier:** CBC-5DMR
- **Application of the substance / the preparation:** N/A
- **Manufacturer/Supplier:**
R&D Systems Inc.
614 McKinley Place N.E.
Minneapolis, MN 55413
USA
- **For product related questions call:** R&D Systems at (612) 379-2956 or 1-800-343-7475. In Europe call: +44(0)1235-529449.
- **Emergency information:** In case of a chemical emergency, spill, leak, fire, or accident call **CHEMTREC** at 1-800-424-9300 (US or Canada). Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

2. Hazard Identification:

- **Classification: Regulation (EC) No. 1272/2008 [CLP/EU-GHS]:** Cycloheximide
- **GHS Classification:** Acute toxicity, Oral 2
- **Signal Word:** DANGER
- **Hazard Statements:** H300: Fatal if swallowed.
- **Precautionary Statements:** P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product.
- **Responses:**
IF SWALLOWED: Immediately call a Poison Center or physician. Specific treatment listed in this MSDS. Rinse mouth.
IF EXPOSED OR CONCERNED: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. See specific treatments in this SDS. Take off contaminated clothing and wash it before reuse.
- **Classification according to EU Directives 67/548/EEC or 1999/45/EC:** T+.
- **R Phrases:** R25: Toxic if swallowed.
- **S Phrases:** S1/2: Keep locked up and out of reach of children. S22: Do not breathe dust. S36/37: Wear suitable protective clothing and gloves. S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
- **Special Hazards:** None.



3. Information on Ingredients:

Description: Cycloheximide

Formula: C₁₅H₂₃NO₄

Molecular Weight: 281.35 g/mol

Contains	Index-No.	CAS No.	EC-No.	Content	Classification
Cycloheximide	613-140-00-8	66-81-9	200-636-0	< 0.1 %	Not hazardous at this concentration

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4. First Aid Measures:

- **After Inhalation:** If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- **After Skin Contact:** Wash off with soap and plenty of water. Remove contaminated clothing. Take immediately to a hospital.
- **After Eye Contact:** Rinse with plenty of water for several minutes (remove contact lenses if easy to do so).
- **After Swallowing:** Rinse mouth with water. Consult a physician.
- **Indication of any immediate medical attention and special treatment needed:** Consult a physician.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Water spray, foam, carbon dioxide, or dry sand.
- **Special hazards arising from the substance or mixture:** Not combustible. Gives off irritating or toxic fumes (or gasses in a fire).
- **Special protective actions for fire-fighters:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.
- **Hazardous combustion products:** Hazardous decomposition products formed under fire conditions – carbon oxides; nitrogen oxides.

6. Accidental Release Measures:

- **Personal precautions, protective equipment and emergency procedures:** Wear respiratory protection. Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- **Environmental precautions:** Keep away from drains. **Discharge into environment must be avoided.**
- **Methods 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.

7. Handling and Storage:

- **Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation at places where dust is formed.
- **Conditions for safe storage, including incompatibilities:** Keep container tightly closed in a dry and well-ventilated area. Recommended storage temperature: 2-8 °C.

8. Exposure Controls and Personal Protection:

- **Control parameters:**
 - Component: Cycloheximide (CAS# 66-81-9): **USA Occupational Exposure Limits (OSHA):** None established.
 - UK EH40 WEL – Workplace Exposure Limits:** None established.
- **Appropriate engineering controls:** Use with adequate ventilation including local exhaust. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Individual protection measures:** Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
 - Eye/face 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/hand protection:** Handle with protective gloves, plastic or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
 - Body protection:** Complete Suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection: In case of inadequate ventilation, use a suitable respirator. 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).

9. Physical and Chemical Properties:

- **Appearance:** Powder, beige
- **Odor:** Odorless
- **Odor threshold:** Not available
- **pH:** Not available
- **Melting point/freezing point:** 110 °C (230 °F)
- **Boiling point/Boiling range:** Not available
- **Flash point:** Not available
- **Evaporation rate:** Not available
- **Flammability (solid, gas):** Not available
- **Upper/lower flammability or explosive limits:** Not available
- **Vapor density :** Not available
- **Vapor pressure:** Not available
- **Relative density:** Not available
- **Solubility in Water:** Soluble
- **Partition coefficient: noctanol/water:** Not available
- **Auto igniting:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available

10. Stability and Reactivity:

- **Reactivity:** Not combustible.
- **Chemical stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** No data available
- **Conditions to avoid:** No data available.
- **Incompatible materials:** Bases, strong oxidizing agents, acid anhydrides, acid chlorides.
- **Hazardous decomposition products:** Products formed under fire conditions: toxic fumes including carbon oxides and nitrogen oxides.

11. Toxicological Information:

- **Acute toxicity:** LD50 Oral – rat – 2 mg/kg.
- **Inhalation LC50 and Dermal LD50:** No data available.
- **Skin corrosion/irritation:** Skin – rabbit – irritation – 24 hr.
- **Serious eye damage/irritation:** No data available.
- **Respiratory or skin sensitization:** No data available.
- **Germ cell mutagenicity:** Laboratory experiments have shown mutagenic effects. *In-vitro* tests showed mutagenic effects.
- **Carcinogenicity:** No data available.
- **Reproductive toxicity:** Suspected of having fertility effects. May cause congenital malformation in the fetus.
- **Specific target organ toxicity (STOT) -single exposure:** No data available.
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available.
- **Aspiration hazard:** No data available
- **Information on likely routes of exposure:** Routes of entry anticipated; oral, dermal, inhalation.
- **Potential Health Effects:**
 - Inhalation: Causes respiratory tract irritation.
 - Ingestion: May be fatal if swallowed.
 - Skin: Causes skin irritation.
 - Eyes: May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

- **Effects of chronic exposure:** No data available.
- **Numerical measures of toxicity:** No data available.
- **Other Information:** RTECS: MA4375000

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12. Ecological Information:

- **Ecotoxicity:** No data available.
- **Biodegradability and Persistence:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Other adverse effects:** Toxic to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal Considerations:

- **Disposal methods:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of waste in accordance to applicable national, regional, or local regulations.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** no data available

14. Transport Information:

- **ADR/RID** Not a shipping hazard at this concentration.
- **IMDG** Not a shipping hazard at this concentration.
- **IATA** Not a shipping hazard at this concentration.

Further Information: Excepted quantity for single packagings and combination packagings containing inner packagings with Dangerous Goods < 30 mL for Liquids or < 30 kg for solids.

15. Regulations:

US Federal and State Regulations

- **OSHA Hazards:** Target Organ Effect, Highly toxic by ingestion, Irritant, Teratogen, Mutagen.
- **CERCLA/SARA 302:** Cycloheximide is listed.
- **CERCLA/SARA 311/312:** Acute health hazard, chronic health hazard.
- **SARA 313:** Cycloheximide is not listed.
- **TSCA (Toxic Substances Control Act):** Cycloheximide is listed.
- **California Proposition 65:** WARNING! Cycloheximide is a chemical known to the State of California to cause birth defects or other reproductive harm.

16. Other Information:

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.