1. Chemical Product and Company Identification

Product Name: R & F® Escherichia coli O157:H7 Supplement for Enrichment Broth
Cat. Number: M-0210
Product type: Bacteriological Supplement
Company Identification: R & F Products, Inc.
2725 Curtiss Street
Downers Grove, IL 60515
Contact: Phone USA 2725 Curtiss Street Emergency Contact: 630-969-5300
Downers Grove, IL 60515

Purpose of Medium – For isolating pathogens from foods, environmental and/or clinical sources.

2. Hazard Identification

GHS - Classification Potential Health Effects
Signal Word Eyes - May cause eye irritation with susceptible persons
Not Hazardous Skin - May cause skin irritation in susceptible persons.
Inhalation - May be harmful by inhalation.
Ingestion - May be harmful if swallowed.

Health Hazards Not Hazardous
Physical Hazards Not Hazardous

3. Chemical Characterization

<table>
<thead>
<tr>
<th>Chemical(s)</th>
<th>%</th>
<th>CAS NO.</th>
<th>EC Number</th>
<th>Symbol</th>
<th>R-phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vancomycin hydrochloride</td>
<td>33.3</td>
<td>1404-93-9</td>
<td>N/AV</td>
<td>C66H75C12N9O24-HCl</td>
<td>N/AP</td>
</tr>
<tr>
<td>Cefsulodin Sodium Salt</td>
<td>33.3</td>
<td>52152-93-9</td>
<td>N/AV</td>
<td>C22H20N4O8S2/Na</td>
<td>N/AP</td>
</tr>
<tr>
<td>3-Hydroxy-2-Methyl-4-Pyrene</td>
<td>33.3</td>
<td>118-71-8</td>
<td>N/AV</td>
<td>C6H6O3</td>
<td>N/AP</td>
</tr>
</tbody>
</table>
4. First Aid Measures
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.
Skin contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Eye contact: In case of contact with eyes, flush with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Safety Phrases:
N/AP

5. Fire Fighting Measures
Extinguishing media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Suitable for surrounding fire

Special Fire Fighting Procedures: N/AV

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

6. Accidental Release Measures
Instructions: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage
Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
Storage: Keep tightly closed and store at -10°C or below.

8. Exposure Controls/ Personal Protection
Safety shower and eye bath. NIOSH/MSHA-approved respirator. Compatible chemical-resistant gloves. Chemical safety goggles. Wash contaminated clothing before reuse. Wash thoroughly after handling.

9. Physical and Chemical Properties
Physical state: Powder free flowing, homogenous
Color: Off White
Solubility: In water at room temperature
Flash Point: N/AV Boiling Point: N/AV
10. Stability and Reactivity

Stable under normal conditions.
Incompatibilities: Strong Oxidizing Agents
Hazardous decomposition products – Not under normal conditions.

11. Toxicological Information

May be harmful by inhalation, ingestion, or skin absorption.

Vancomycin hydrochloride  LD50  Oral Rat = >10,000 mg/kg
Cefsulodin sodium salt  LD50  Oral Rat = >15,000 mg/kg
3-Hydroxy-2-Methyl-4-Pyrene LD 50 Oral Rat = 1,410 mg/kg

12. Ecological Information

RTECS:  Vancomycin hydrochloride  YW4380000
Cefsulodin sodium salt  UU1785000

13. Disposal Considerations

Collect for recycling or recovery if possible. The disposal method for rejected products/returned goods must ensure that they cannot be re-sold or re-used.

Observe all local and national regulations when disposing of this product.

14. Transportation Information

Transportation and shipping of this product is not restricted. It has no known, significant hazards requiring special packaging or labeling for air, maritime, US or European ground transport purposes.
15. Regulatory Information
SARA 311/312/302 -- This product complies. Hazard class: None
SARA 313 Listed: No
TSCA Inventory item: Yes
CERCLA – This product contains no reportable quantity (RQ) substances.
RECRA – N/AV

PROPOSITION 65: N/AV

16. Other Information

Reason for revision; Compliance for SDS protocol.

Not intended for human or animal diagnostic or therapeutic uses.

The above information was obtained by thorough search and the recommendations are based on application of professional judgment. To the best of our knowledge, the information contained herein is accurate. R & F Products assumes no liabilities for accuracy or completeness of the information contained herein


End of Safety Data Sheet