IDENTITY OF SUBSTANCE (As Used on Label and List)
Manpro Manganese Methionine

CHEMICAL NAME
Manganese Methionine

Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer’s Name
Zinpro Corporation

Address (Number, Street, City, State, and ZIP Code)
6500 City West Parkway, Suite 300

Emergency Telephone Number
Chemtrec 800 424-9300

Telephone Number for Information
612 944-2736

Date Prepared
November 1995

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

IS THIS PRODUCT HAZARDOUS IN THIS CONCENTRATION UNDER 29 CFR PART 1910.1200? YES [X] NO

IF YES, CHECK HEALTH HAZARD —
☐ CARCINOGEN
☐ HIGHLY TOXIC
☐ SENSITIZER
☐ TARGET ORGAN EFFECT

OR, CHECK PHYSICAL HAZARD —
☐ COMBUSTIBLE LIQUID
☐ FLAMMABLE
☐ EXPLOSIVE

☐ CORROSIVE
☐ IRRITANT
☐ OXIDIZER

☐ HIGHLY TOXIC
☐ TOXIC
☐ UNSTABLE (REACTIVE) OR WATER-REACTIVE

Hazardous Components (Specific Chemical Identity: Common Name(s))

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese Sulfate</td>
<td>7785-87-7</td>
<td>8-16% Mn</td>
</tr>
</tbody>
</table>

Section III — Physical/Chemical Characteristics

Boiling Point
Not Applicable

Specific Gravity (H₂O = 1)
0.75

Vapor Pressure (mm Hg)
Not Applicable

Melting Point
Decomposes above 500° F

Vapor Density (Air = 1)
Not Applicable

Evaporation Rate
(Butyl Acetate = 1) Not Applicable

Solubility in Water
Manpro 80: Not Soluble; Manpro 160: Soluble

Appearance and Odor
Manpro 80: Brown granular; Manpro 160: Off-white fine powder.
Both: Slight methionine-like odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)
Nonflammable

Flammable Limits
Not Applicable N.A. LEL N.A. UEL

Extinguishing Media
Water, foam, CO₂, or dry chemical

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
None
Section V — Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>May Occur</th>
<th>Conditions to Avoid</th>
<th>Will Not Occur</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Not Applicable</td>
<td>X</td>
</tr>
</tbody>
</table>

Section VI — Health Hazard Data

Based on specific concentration as sold

<table>
<thead>
<tr>
<th>Route(s) of Entry:</th>
<th>Inhalation?</th>
<th>May Cause Irritation</th>
<th>Skin?</th>
<th>Contact May Cause Irritation</th>
<th>Ingestion?</th>
<th>Unlikely</th>
</tr>
</thead>
</table>

Health Hazards (Acute and Chronic)
None

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
None No No No

Signs and Symptoms of Exposure
Prolonged contact with eyes or skin may cause irritation. Prolonged inhalation may cause respiratory irritation.

Medical Conditions
Generally Aggravated by Exposure
Respiratory problems.

Emergency and First Aid Procedures
Wash eyes or skin with water. If necessary, seek medical attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Recover uncontaminated material for use. Vacuum or sweep remaining material keeping dust to a minimum.

Waste Disposal Method
Dispose of unreclaimable material in RCRA approved waste facility.

Precautions to Be Taken in Handling and Storage
Use face mask to avoid prolonged inhalation. Avoid prolonged skin contact. Store in dry place.

Other Precautions

Section VIII — Control Measures
Specify whether one or more controls are necessary (alone or in combinations)

Respiratory Protection (Specify Type)

Face Mask
Is protective clothing necessary unnecessary if ventilation identified below is used?
Possibly necessary with prolonged contact.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protective Gloves</th>
<th>Yes (Specify type)</th>
<th>For prolonged contact. (rubber gloves)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Eye Protection</th>
<th>Yes (Specify type)</th>
<th>For prolonged contact in dusty conditions</th>
</tr>
</thead>
</table>

Hygienic Practices
Good personal hygiene reduces possibility of skin irritation.

<table>
<thead>
<tr>
<th>Is protective clothing necessary unnecessary if other control measures are used?</th>
</tr>
</thead>
</table>