MATERIAL SAFETY DATA SHEET

This information must be made available to all personnel using this product.

WESTERN WATER MANAGEMENT, INC.
1345 Taney
North Kansas City,
Missouri 64116

Phone No. (weekdays)
816-842-0560
CHEMTREC (Emergency Phone)
1-800-424-9300 (24 hr.)

PRODUCT NAME Closed Circuit Treatment
FORMULA MultiGuard 41
HAZARD CLASSIFICATION IRRITANT; TOXIC
NFPA: Health-2/ Flammability-0/ Reactivity-0/ Other-none

SECTION 1 HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium molybdate</td>
<td>CAS# 7631-95-0 OSHA: 5 mg/m3 PEL (as soluble Mo)</td>
</tr>
<tr>
<td>sodium nitrite</td>
<td>CAS# 7632-00-0 AGGIIH: 5mg/m3 8Hr.TWA (as soluble Mo)</td>
</tr>
<tr>
<td></td>
<td>OSHA &amp; AGGIIH: None Established</td>
</tr>
</tbody>
</table>

This product does not contain 1% or greater of hazardous ingredients listed in Subpart D of SARA Title III, Section 313, nor does it contain 0.1% or greater of any ingredients listed as carcinogens by NTP, IARC, or OSHA.

SECTION 2 PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Clear, light, straw colored liquid.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.143</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>80</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>that of water</td>
</tr>
<tr>
<td>pH</td>
<td>7.5</td>
</tr>
<tr>
<td>Boiling Point (F.)</td>
<td>&gt;212</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>not known</td>
</tr>
<tr>
<td>Vapor Density (air-l)</td>
<td>not known</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>complete</td>
</tr>
</tbody>
</table>

SECTION 3 HEALTH HAZARD DATA

Effects of Overexposure      EYES: Contact can cause irritation. SKIN: Can cause irritation, and with prolonged contact, dermatitis. Will not penetrate intact skin. Sodium nitrite can be absorbed into the body and lead to nonspecific discomfort, such as nausea, headache, or weakness; reduction of the blood’s oxygen carrying capacity with cyanosis (bluish discoloration), weakness, or shortness of breath by formation of methemoglobin; anemia; or low blood pressure with dizziness. INHALATION: Inhalation of mist may irritate respiratory tract. INGESTION: Can cause nausea, vomiting, and diarrhea. Ingestion of large amounts of sodium nitrite can result in acute toxic effects and may be fatal. (Details of ingestion effects of large doses of sodium nitrite: conversion of hemoglobin to methemoglobin, producing cyanosis; marked fall in blood pressure, leading to collapse, coma, and possibly death. Individuals with preexisting diseases of the cardiovascular system and bone marrow may have increased susceptibility to the toxicity of excessive exposures.) EFFECTS OF CHRONIC OVEREXPOSURE: Large amounts of molybdate absorbed into blood stream from ingestion or through damaged skin may result in erythema, macular rash, nausea, diarrhea, dizziness, depression. Dry skin, loss of hair and cracked lips, may also occur. Gout may be aggravated by exposure to this material.

Emergency and First Aid Procedures EYES: Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids open to ensure flushing of the entire eye surface. Get emergency medical attention. SKIN: Remove contaminated clothing. Wash contaminated skin with soap and water. INHALATION OF MIST OR VAPOR: Remove to fresh air. Get medical attention. INGESTION: Have conscious patient drink several glasses of water, then induce vomiting by having patient tickle back of throat with finger. Get immediate ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
SECTION 4  FIRE & EXPLOSION HAZARD DATA
Flash Point    None  Flammable Limits    Not flammable.
Extinguishing Media   Whatever is appropriate for surrounding fire.
Special Fire Fighting Procedures   Firefighters should always wear protective
clothing and positive pressure self-contained breathing apparatus when fighting fires
near chemicals.
Unusual Fire & Explosion Hazards   Sodium nitrite is an oxidizing agent - it can sup-
ply oxygen to stimulate or accelerate the combustion of organic or other combustible
materials if product is allowed to evaporate to dryness. Thermal decomposition (as
may be experienced in a fire) may produce toxic and hazardous nitrogen oxides.

SECTION 5  REACTIVITY DATA
Stability    Stable.
Conditions to Avoid    None known.
Incompatibility (Materials to Avoid)   Combustible materials. Sodium nitrite can
react with acids, ammonium compounds, amines, activated carbon, reducing agents -
particular cyanides, thiocyanates and thiosulfates, certain combustibles and organ-
ics. DO NOT MIX WITH SECONDARY AMINES. SUSPECTED CANCER-CAUSING NITROSAMINES COULD
BE FORMED.
Hazardous Decomposition Products    Thermal decomposition (as may be experi-
enced in a fire) may produce toxic and hazardous nitrogen oxides. Nitrite compounds may react
with secondary amines to form suspected cancer-causing nitrosamines.
Hazardous Polymerization    Will not occur.

SECTION 6   SPECIAL PROTECTION
Respiratory Protection    Not needed under normal conditions of use.
Ventilation    General mechanical.
Eye Protection   Chemical splash goggles.
Protective Gloves    Rubber gauntlet-type.
Other Protective Equipment   Emergency eye wash station, safety shower, long-sleeved
shirt, long pants, and rubber apron and boots.

SECTION 7  SPILL OR LEAK
Steps to be Taken in Case Material is Released or Spilled    Attempt to keep out of
sewer and out of public waters. Clean up spills immediately with inert absorbent
material and place into an approved container for disposal. Then flush spill area
with large amounts of water. Wear adequate protective clothing and equipment.
Reportable Quantity    3,000 lbs
Waste Disposal Method   Dispose of waste in accordance with all federal, state, and
local regulations regarding health and pollution.

SECTION 8  SPECIAL PRECAUTIONS
Precautions to be Taken in Handling and Storing    Do not get in eyes, on skin, or
on clothing. Do not breathe mists. Use with adequate ventilation and use protective
equipment (see Section 6). Wash thoroughly after handling. A water source and shower
should be installed in storage and work areas. Wash contaminated clothing before
reuse. Store in a cool area away from incompatible materials (see Section 5). Keep
drum tightly closed when not in use. Protect container from physical damage. Changes
in temperature create air pressure inside drums. Use proper caution in unscrewing
plug and inserting faucet. Unscrew plug slowly, allowing air to escape before
completely removing plug. Do not mix with any other concentrated chemicals. Do not
wear contact lenses when working with chemicals. Always practice good housekeeping
when handling and storing any chemicals.

Western Water Management, Inc.  MSDS
Date: August 2, 1990

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Prepared by: Fred Hopkins