1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 32200
Product Name: Mayoquest 2200
Trade Name: Mayoquest 2200
Company Name: Compass Chemical International LLC
5544 Oakdale Road SE
Smyrna, GA 30082

Web site address: www.compasschemical.com

Emergency Contact: Chemtrec
24 Hour (404)696-6711

Phone Number: (678)904-4017

Intended Use: Intended for Industrial Use

Synonyms: Sodium salt of phophonomethylated diamine

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A

GHS Signal Word: Warning

GHS Hazard Phrases: H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment see Response/First aid section on this label.
P332+313 - If skin irritation occurs, get medical advice/attention.
P337+313 - If eye irritation persists, get medical advice/attention.
P362 - Take off contaminated clothing and wash before re-use.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

Inhalation: Vapors and/or aerosols may be irritating to eyes and respiratory tract.
Skin Contact: Prolonged or repeated contact may cause skin irritation.
Eye Contact: Causes eye irritation. Irritating, and may injure eye tissue if not removed promptly.
Ingestion: Swallowing this material may be harmful. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

Medical Conditions Generally Aggravated By Exposure: Consult a physician.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>Phosphonomethylated Diamine, Sodium Salt</td>
<td>30 - 50 %</td>
<td>NA</td>
</tr>
<tr>
<td>7647-14-5</td>
<td>Sodium Chloride</td>
<td>5.0 - 10 %</td>
<td>VZ4725000</td>
</tr>
<tr>
<td>15475-67-9</td>
<td>Phosphonic acid, sodium salt</td>
<td>0 - 3.0 %</td>
<td>NA</td>
</tr>
<tr>
<td>7632-05-5</td>
<td>Phosphoric acid, sodium salt</td>
<td>0 - 1.0 %</td>
<td>TC7000000</td>
</tr>
</tbody>
</table>

Additional Chemical Information: Trade Secret Components will be disclosed to medical professionals with verifiable identity, upon request, in the event of a medical emergency.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Remove contaminated clothing and shoes. Remove from exposure and move to fresh air immediately.

In Case of Inhalation:
If exposed adversely to vapors and/or aerosols, immediately remove the affected victim from exposure and get medical attention. Give artificial respiration if victim is not breathing. If breathing is difficult, give oxygen.

In Case of Skin Contact:
Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. GET MEDICAL ATTENTION. Contaminated clothing should be discarded in a manner which limits further exposure.

In Case of Eye Contact:
Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

In Case of Ingestion:
If exposed adversely to vapors and/or aerosols, immediately remove the affected victim from exposure and get medical attention. Give artificial respiration if victim is not breathing. If breathing is difficult, give oxygen.

5. FIRE FIGHTING MEASURES

Flammability Classification: Non-flammable
Flash Pt: N.A.
Explosive Limits: LEL: N.A. UEL: N.A.
Autoignition Pt: N.E.

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media: Unknown.

Fire Fighting Instructions: Containers can build up pressure if exposed to heat (fire). Material will not burn. Use water spray to keep fire-exposed containers cool. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: Material will not burn. Not flammable or combustible. Containers may explode when heated.
6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Tightly fitting safety goggles. Wear appropriate protective clothing to prevent skin exposure. Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

Environmental Precautions: In case of inadequate ventilation wear respiratory protection. Dispose of contents/container in accordance with all federal, state and local regulations.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Prevent further leakage or spillage if safe to do so. Freely miscible in water. Avoid runoff into storm sewers and ditches which lead to waterways. This material will sink and is soluble/dispersable, it is probably not recoverable. Notify the Authorities. Stop leak if you can do it without risk. Dike to collect large liquid spills.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Keep container closed when not in use. Handle with care. Open closures with care.

Precautions To Be Taken in Storing: Not recommended for storage in aluminum containers.

Other Precautions: Store in a cool, dry, well-ventilated area away from incompatible substances.

Storage Temperature: Ambient.

Storage Pressure: Atmospheric.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Equipment (Specify Type): Respirator protection is not normally required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Eye wash station in work area. Safety shower in work area.

Eye Protection: Splash proof safety goggles.

Protective Gloves: In case of inadequate ventilation, wear appropriate respirators. Wear respiratory protection, wear chemical resistant gloves, and long sleeves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Ventilation should be provided to control worker exposures and prevent health risks and as necessary to reduce, prevent and control dust, mist, vapor or aerosol generation.

Work/Hygienic/Maintenance Practices: Wash thoroughly after handling. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use with adequate ventilation.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical States:</strong></td>
<td>[ ] Gas</td>
</tr>
<tr>
<td></td>
<td>[ X ] Liquid</td>
</tr>
<tr>
<td></td>
<td>[ ] Solid</td>
</tr>
<tr>
<td><strong>Appearance and Odor:</strong></td>
<td>Hazy, light to dark amber.</td>
</tr>
<tr>
<td></td>
<td>Mild odor.</td>
</tr>
<tr>
<td></td>
<td>Odor threshold: Unavailable</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>NA- Not available</td>
</tr>
<tr>
<td>Freezing Point:</td>
<td>NA</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>NA</td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>N.E.</td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>N.A.</td>
</tr>
<tr>
<td><strong>Explosive Limits:</strong></td>
<td>LEL: N.A.</td>
</tr>
<tr>
<td></td>
<td>UEL: N.A.</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1):</td>
<td>1.29 - 1.31</td>
</tr>
<tr>
<td></td>
<td>at 25.0°C (77.0°F)</td>
</tr>
<tr>
<td>Density:</td>
<td>10.75 - 10.92</td>
</tr>
<tr>
<td></td>
<td>at 25.0°C (77.0°F)</td>
</tr>
<tr>
<td>Bulk density:</td>
<td>NP</td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg):</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1):</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Miscible</td>
</tr>
<tr>
<td>Saturated Vapor Concentration:</td>
<td>NA</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>NE</td>
</tr>
<tr>
<td>Octanol/Water Partition Coefficient:</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH:</td>
<td>4 - 5</td>
</tr>
<tr>
<td>Percent Volatile:</td>
<td>~ 50.00% by weight.</td>
</tr>
<tr>
<td>VOC / Volume:</td>
<td>NA</td>
</tr>
<tr>
<td>Particle Size:</td>
<td>NP</td>
</tr>
<tr>
<td>Heat Value:</td>
<td>NA</td>
</tr>
<tr>
<td>Corrosion Rate:</td>
<td>NE</td>
</tr>
<tr>
<td><strong>Additional Physical Information</strong></td>
<td></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity:</td>
<td>Strong oxidizing agents.</td>
</tr>
<tr>
<td>Stability:</td>
<td>Unstable [ ] Stable [ X ]</td>
</tr>
<tr>
<td>Conditions To Avoid - Instability:</td>
<td>Strong oxidizing agents.</td>
</tr>
<tr>
<td>Incompatibility - Materials To Avoid:</td>
<td>Strong oxidizing agents, May be corrosive to aluminum. Avoid contact with aluminum.</td>
</tr>
<tr>
<td>Hazardous Decomposition or Byproducts:</td>
<td>Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine. Carbon oxides, nitrogen oxides (NOx).</td>
</tr>
<tr>
<td>Possibility of Hazardous Reactions:</td>
<td>Will occur [ ] Will not occur [ X ]</td>
</tr>
<tr>
<td>Conditions To Avoid - Hazardous Reactions:</td>
<td>Product will not undergo polymerization.</td>
</tr>
</tbody>
</table>
11. TOXICOLOGICAL INFORMATION

**Toxicological Information:**
No data available.

**CAS# 7647-14-5:**
Acute toxicity, LD50, Oral, Rat, 3.000 GM/KG.

**Irritation or Corrosion:**

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>Phosphonomethylated Diamine, Sodium Salt</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>7647-14-5</td>
<td>Sodium Chloride</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>15475-67-9</td>
<td>Phosphonic acid, sodium salt</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>7632-05-5</td>
<td>Phosphoric acid, sodium salt</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

**Symptoms related to Toxicological Characteristics:**
No information found.

**Chronic Toxicological Effects:**
No information found.

**Standard Draize Test, Skin, Species: Rabbit, 50.00 MG, 24 H.**
Result:
Behavioral: Convulsions or effect on seizure threshold.

- **Blood:** Other hemolysis with or without anemia.
- **Nutritional and Gross Metabolic:** Changes in: Body temperature increase.

**CAS# 7647-14-5:**

- **LC50, Bluegill (Lepomis macrochirus), 12946000. UG/L, 96 H, Mortality, Water temperature: 18.00 C (64.4 F) C:**

12. ECOLOGICAL INFORMATION

**General Ecological Information:**
No information found.

**Results of PBT and vPvB assessment:**
No information found.

**CAS# 7647-14-5:**
Effective concentration to 50% of test organisms., Water Flea (Daphnia magna), 61700. UMOL/L, 24 H, Intoxication.

- **Comparative Acute Toxicity of the First 50 Multicentre Evaluation of In Vitro Cytotoxicity Chemicals to Aquatic Non-vertebrates, Calleja, M.C., G. Persoone, and P. Geladi, 1994**
Effective concentration to (0) % of test organisms, Water Flea (Daphnia magna), 4200000. UG/L, 48 H, Intoxication.; The Toxicity Thresholds of Various Sodium Salts Determined by the Use of Daphnia magna, Anderson, B.G., 1946

Effective concentration to 50% of test organisms., Water Flea (Daphnia pulex), 56.40 MMOL/L, 24 H, Intoxication., Water temperature: 20.00 C (68.0 F) C, pH: 7.60.
Result:
Morphological changes.
- A Comparison of the Toxicity of 30 Reference Chemicals to Daphnia magna and Daphnia pulex, Lilius, H., T. Hastbacka, and B. Isomaa, 1995

LC50, Diatom (Nitzschia linearis), 2430000. UG/L, 5 D, Mortality; The Relative Sensitivity of Diatoms, Snails, and Fish to Twenty Common Constituents of Industrial Wastes, Patrick, R., J.,Jr. Cairns, and A. Scheier, 1968

LC50, Striped Bass (Morone saxatilis), larva(e), 3000000. UG/L, 24 H, Mortality, Water temperature: 21.10 C (70.0 F) C.
Result:
Morphological changes.
- Acute Toxicity of Thirty Chemicals to Striped Bass (Morone saxatilis), Hughes, J.S., 1973

LC50, Brine Shrimp (Artemia salina), 2730000. UMOL/L, 24 H, Mortality.
Result:
Morphological changes.
- Comparative Acute Toxicity of the First 50 Multicentre Evaluation of In Vitro Cytotoxicity Chemicals to Aquatic Non-vertebrates, Calleja, M.C., G. Persoone, and P. Geladi, 1994

LC50, Rotifer (Brachionus calyciflorus), 62700. UMOL/L, 24 H, Mortality.
Result:
Morphological changes.
- Comparative Acute Toxicity of the First 50 Multicentre Evaluation of In Vitro Cytotoxicity Chemicals to Aquatic Non-vertebrates, Calleja, M.C., G. Persoone, and P. Geladi, 1994

CAS# 7632-05-5:
LC50, Water Flea (Daphnia magna), 126000. UG/L, 4.20 D, Mortality, Water temperature: 21.00 C (69.8 F) - 25.00 C (77.0 F) C; Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965

Effective concentration to 50% of test organisms., Northern Quahog Or Hard Clam (Mercenaria mercenaria), juvenile(s), 19000. UG/L, 96 H, Intoxication., Water temperature: 20.00 C (68.0 F) C, pH: 8.23; Toxicity of Ammonia, Nitrite Ion, Nitrate Ion, and Orthophosphate to Mercenaria mercenaria and Crassostrea virginica, Epifanio, C.E., and R.F. Srna, 1975

LC50, Medaka, High-Eyes (Oryzias latipes), 1000000. UG/L, 48 H, Mortality, Water temperature: 30.00 C (86.0 F) C; The Influence of Rearing Temperatures on the Toxicity of Various Environmental Pollutants for Killifish (Oryzias latipes), Tsuji, S., Y. Tonogai, Y. Ito, and S. Kanoh, 1986

Persistence and Degradability:
No information found.
Bioaccumulative Potential: This material is not expected to bio-accumulate.
Mobility in Soil: Unknown Effect.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Empty drums should be completely drained and properly bunged, then promptly returned to a drum reconditioner, or properly disposed of. Discarded product, as sold, would not be considered a RCRA Hazardous Waste. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

GHS Classification: Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation
Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation

LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Not regulated as a hazardous material.
DOT Hazard Class: UN/NA Number:

LAND TRANSPORT (Canadian TDG):
TDG Shipping Name: Not regulated as a hazardous material.
UN Number:
Hazard Class: TDG Classification:

LAND TRANSPORT (European ADR/RID):
ADR/RID Shipping Name:
UN Number:
Hazard Class:

AIR TRANSPORT (ICAO/IATA):
ICAO/IATA Shipping Name: Not regulated as a hazardous material.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>Phosphonomethylated Diamine, Sodium Salt</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>7647-14-5</td>
<td>Sodium Chloride</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>15475-67-9</td>
<td>Phosphonic acid, sodium salt</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>7632-05-5</td>
<td>Phosphoric acid, sodium salt</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

This material meets the EPA 'Hazard Categories’ defined for SARA Title III Sections as indicated:

- Acute (immediate) Health Hazard: [X] Yes [ ] No
- Chronic (delayed) Health Hazard: [ ] Yes [X] No
- Fire Hazard: [ ] Yes [X] No
- Sudden Release of Pressure Hazard: [ ] Yes [X] No
- Reactive Hazard: [ ] Yes [X] No

Other US EPA or State Lists

- Phosphonomethylated Diamine, Sodium Salt: CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
- Sodium Chloride: CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
- Phosphonic acid, sodium salt: CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -
Mayoquest 2200

SAFETY DATA SHEET

Inventory; CA PROP.65: No

CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

Hazardous Components (Chemical Name) International Regulatory Lists

CAS #    Phosphonomethylated Diamine, Sodium Salt

NA       Canadian DSL: No; Canadian NDSL: Yes; Mexico INSQ: No;
          Australia ICS: No; China IECSC: No; Japan ENCS: No;
          Korea ECL: No; Philippines ICCS: No; Taiwan TCSCA: No;
          REACH: No

7647-14-5 Sodium Chloride

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes;
          Australia ICS: Yes; China IECSC: Yes; Japan ENCS: Yes -
          (1)-236; Korea ECL: Yes - KE-31387; Philippines ICCS: Yes;
          Taiwan TCSCA: Yes; REACH: Yes - (R), (P)

15475-67-9 Phosphonic acid, sodium salt

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No;
          Australia ICS: Yes; China IECSC: Yes; Japan ENCS: No;
          Korea ECL: Yes - KE-28500; Philippines ICCS: No; Taiwan
          TCSCA: Yes; REACH: Yes - (P)

5762-05-5 Phosphoric acid, sodium salt

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No;
          Australia ICS: Yes; China IECSC: Yes; Japan ENCS: Yes -
          (1)-497; Korea ECL: Yes - KE-28642; Philippines ICCS: Yes;
          Taiwan TCSCA: Yes; REACH: Yes - (P)

This product and all of its components are listed on the TSCA inventory or are exempt.

Regulatory Information Statement:

Regulatory information provided in this SDS was prepared for this product and is to be used only for the product in its present form. If this material is used as a component in another material or altered in any way, the information in this SDS may no longer be applicable. This document was generated for the purpose of distributing health, safety and environmental data.

16. OTHER INFORMATION

Revision Date: 06/24/2015
Preparer Name: Compass EHS Department (404)696-6711 4071

Hazard Rating System:

Health Flammability Instability
2 1 0

NFPA: Special Hazard

HMIS: PPE

Additional Information About This Product: SDS Data Field Acronym Legend:

NA- Not Available
NE- Not Established
NP- Not Applicable
NR- Not Required
PR- Proprietary
TS- Trade Secret.

Company Policy or Disclaimer: MANUFACTURER DISCLAIMER: NOTICE: We believe that the information contained on this Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily either all-inclusive or fully adequate in every circumstance. Also, these suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.