SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Trimethyl Phosphite
PRODUCT NUMBER: 3716
CAS NUMBER: 121-45-9
SYNONYMS: Methyl phosphite, TMP, Trimethoxyphosphite

MANUFACTURER:
Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109
PHONE: 815-398-1788
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TOLL FREE: 800-795-8788

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram

Signal Word Danger

Hazard Statements

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary Phrases

P210 Keep away from heat/sparks/open flames/hot surfaces.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
SECTION 2          HAZARDS IDENTIFICATION (Cont.)

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with waster for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P501 Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:  
Health: 2  Fire: 3  Reactivity Hazard: 1

NFPA RATING:  
Health: 2  Flammability: 3  Reactivity Hazard: 1

EYE CONTACT: Causes serious eye damage.
SKIN CONTACT: Causes skin irritation.
INHALATION: May cause respiratory tract irritation.
INGESTION: Harmful if swallowed.

SECTION 3       COMPOSITION / INFORMATION ON INGREDIENTS

Formula: C₃H₉O₃P

Molecular Weight: 124.08

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<tbody>
<tr>
<td>Trimethyl Phosphite</td>
<td>121-45-9</td>
<td>100</td>
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</table>

SECTION 4      FIRST AID MEASURES

EYE EXPOSURE: Immediately rinse with plenty of water for at least 15 minutes. Seek medical attention.
SKIN EXPOSURE: Immediately was with soap and water and rinse thoroughly. Seek immediate medical attention.
INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

SECTION 5      FIREFIGHTING MEASURES

FLASH POINT: 28°C – closed cup
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and phosphorus oxides

SECTION 6      ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Remove all sources of ignition. Avoid breathing dust. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Absorb with liquid-binding material, such as sand, diatomite, acid binders, universal binders, or sawdust. Sweep up and place in proper container for disposal.
SECTION 7  HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Keep away from sources of ignition-No smoking. Take measures to prevent the build up of electrostatic charge.
CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from air, water, moisture, strong bases, and oxidizing agents. Air and moisture sensitive. Store under dry inert gas.

SECTION 8  EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
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<tr>
<th>Component</th>
<th>Exposure Limits</th>
<th>Basis</th>
<th>Entity</th>
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<tr>
<td>Trimethyl Phosphite</td>
<td>2 ppm</td>
<td>10 mg/m³</td>
<td>TLV</td>
</tr>
<tr>
<td></td>
<td>2 ppm</td>
<td>10 mg/m³</td>
<td>TWA</td>
</tr>
</tbody>
</table>

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles.
SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless liquid
ODOR: Unpleasant
MOLECULAR WEIGHT: 124.08
BOILING POINT: 111-112°C
MELTING POINT: -78°C
SPECIFIC GRAVITY: 1.052 gm/ml
VAPOR DENSITY: 4.28
SOLUBILITY: Hydrolyzes

SECTION 10  STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Heat, flames, and sparks
INCOMPATIBILITY: Oxidizing agents, bases, air, water, and moisture
DECOMPOSITION PRODUCTS: Carbon oxides and phosphorus oxides

SECTION 11  TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – Rat - 1600 mg/kg. LD50 Oral – Rat – 1350 mg/kg. LD50 Dermal – Rabbit – 2600 mg/kg.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGIC EFFECTS: Not available
REPRODUCTIVE EFFECTS: Suspected of damaging fertility or the unborn child. On lab animals the effects are as follows: Rat – specific developmental abnormalities (Central nervous system, Craniofacial including nose and tongue, Musculoskeletal system, Urogenital system, Homeostasis).
CHRONIC TOXICITY: Not available
RTECS: TH1400000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.
SECTION 12 ECOLOGICAL DATA

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN2329
Trimethyl phosphite
CLASS 3
PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 302/304: Not Listed
SARA 311/312: Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
SARA (TITLE 313): Not Listed
CALIFORNIA PROP. 65: Not Listed
MASSACHUSETTS RIGHT TO KNOW: Trimethyl phosphite
PENNSYLVANIA RIGHT TO KNOW: Trimethyl phosphite
NEW JERSEY RIGHT TO KNOW: Trimethyl phosphite
WHMIS CANADA: Class B-2: Flammable liquid. Class D-2A

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/14