SAFETY DATA SHEET

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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
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Flammable liquids	Category – 3
Acute toxicity: oral Ingestion	Category – 4
Skin corrosion / irritation	Category – 2
Serious eye damage / eye irritation	Category – 1
Specific target organ toxicity: Respiratory tract irritation	Category – 3

Pictogram



Signal Word **Warning**

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.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

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.

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.
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.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_3H_9O_3P$

Molecular Weight: 124.08

CHEMICAL NAME	CAS#	%
Trimethyl Phosphite	121-45-9	100

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

EXPOSURE CONTROLS

Component	Exposure Limits		Basis	Entity
Trimethyl Phosphite	2 ppm	10 mg/m^3	TWA	ACGIH
	2 ppm	10 mg/m^3	TWA	NIOSH

TWA: Time Weighted Average over 8 hours of work.

EYE PROTECTION: Causes serious eye damage. Must wear chemical safety glasses or goggles.
SKIN PROTECTION: Causes skin irritation. Wear nitrile or rubber gloves .11 mm thickness or higher, apron, or lab coat.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator.
INHALATION: May cause respiratory tract irritation.
INGESTION: Harmful if swallowed.
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
VAPOR DENSITY: 4.28
SOLUBILITY IN WATER: 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. LC50 Inhalation - Rat – 45.7 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
TETRATOGENIC 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 = Cough, Shortness of breath, Headache, Nausea, Vomiting, Aspiration or inhalation may cause chemical pneumonitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. May cause headache and stomach irritation is based on actual human evidence.

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
WHMIS CANADA: Class B-2: Flammable liquid. Class D-2A

SECTION 16 OTHER INFORMATION

HMIS CLASSIFICATION:
Health: 2 Fire: 3 Reactivity Hazard: 1
NFPA RATING:
Health: 2 Flammability: 3 Reactivity Hazard: 1

CAS #: Chemical Abstracts Service Number
TWA: Time-Weighted Average
ACGIH: American Conference of Governmental Industrial Hygienists
NIOSH: National Institute for Occupational Safety and Health
ppm: parts per million
mg/m3: milligrams per cubic meter
LD50: Lethal Dose, 50%
LC50: Lethal Concentration, 50%.
mg/kg: milligrams per kilogram
RTECS: Registry of Toxic Effects of Chemical Substances
UN: United Nations
PG: Packing Group
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act

SECTION 16 OTHER INFORMATION. (Cont.)

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 REVISED: 07/26
REVISION SUMMARY: Removed fax number. Updated Section # 2 – categories, pictogram and signal word. All other details in the document about the product remain unchanged. Revised by EHS 7/26

EHS / SDS DEPT.