



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:

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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 water 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: $C_3H_9O_3P$

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 wash 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	TLV	ACGIH
	2 ppm	10 mg/m ³	TWA	OSHA

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

TETRAOGENIC 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