# **AK Scientific, Inc.**

**Safety Data Sheet** (United States) Tributyl(methyl)phosphonium dimethyl phosphate

1.Identification	
Product name:	Tributyl(methyl)phosphonium dimethyl phosphate
Catalog#:	0834AP
IUPAC name:	Tributyl(methyl)phosphonium dimethyl phosphate
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

#### 2.Hazard Identification:

GHS Classification (United States) none

Pictogram(s)

#### Signal word:

none

# Hazard statement(s) none

Precautionary statement(s):

none

# Hazards not otherwise classified (HNOC) or not covered by GHS:

none

3.Composition/Information on Ingredients				
Synonyms:	Not available.			
CAS#:	20445-88-9			
Purity:	98% (GC)			
EC:	Not available.			

# 4. First Aid Measures

**General Information:** Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

**Skin contact:** Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

**Eye contact:** Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never

administer anything by mouth to an unconscious person. Obtain medical aid immediately. **Most important symptoms and effects, both acute and delayed:** No further information

available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

#### 5. Fire Fighting Measures

**Suitable extinguishing media:** Use water spray, dry chemical, carbon dioxide, or chemical foam. **Specific hazards arising from the chemical:** Carbon oxides, Phosphorus oxides.

**Advice for firefighters:** As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

**Methods and materials for containment and cleaning up:** Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

#### 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

**Conditions for safe storage, including any incompatibilities:** Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term at -20°C.

# 8. Exposure Controls/Personal Protection

#### Exposure limits:

OSHA PEL:	Not available.
NIOSH REL:	Not available.
ACGIH TLV:	Not available.

**Appropriate engineering controls:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

#### **Personal protection**

Eyes: Hands: Skin and body: Respiratory: Not Available. Not Available. Not Available. Not Available.

# 9. Physical and Chemical Properties

Physical State: Molecular Formula: Molecular Weight: Odor: pH: Boiling Point Range: Freezing/Melting Point: Flash Point: Evaporation Rate: Flammability(solid,gas): Explosive limits: Vapor Pressure: Vapor Density: Solubility: Relative Density: Refractive Index: Volatility: Auto-ignition Temperature:	

#### 10. Stability and Reactivity

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

#### 11. Toxicological Information

RTECS# Acute toxicity: Routes of exposure: Symptoms related to the physical,chemical and toxicological characteristics:

#### Not available. Stable under recommended temperatures and pressures. Not available. Dust generation. Strong oxidizing agents.

Liquid or low mp solid

C15H36O4P2

Not available. Not available. Not available. Not available. Not available. Please see section 2. Not available. Not available. Not available. Not available.

342.39

Strong oxidizing agents. Carbon oxides, Phosphorus oxides.

> Not available. Not available. Inhalation,eye contact,skin contact,ingestion. Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

#### Carcinogenicity

IARC:Not classified.NTP:Not listed.OSHA:Not listed.Acute toxic effects:Inflammation of the eye is characterized by redness, watering, and itching. Skin<br/>inflammation is characterized by itching, scaling, reddening, or, occasionally,<br/>blistering.

#### 12. Ecological Information

Ecotoxicity: Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: Not available. Not available. Not available. Not available. Not available.

# AK Scientific, Inc.

Safety Data Sheet (United States) Tributyl(methyl)phosphonium dimethyl phosphate

13. Disposal Considerations		
Disposal of waste:	Not list	ted
Disposal of packaging:	Not list	ted
1 1 0 0		
14. Transportation Information	on	
DOT (United States)		
UN number:	Not hazm	nat
Proper shipping name:	Not avail	
Transport hazard class:	Not avail	
Packing group:	Not avail	
	Not avail	able.
ΙΑΤΑ		
UN Number:	Not DG	
Proper shipping name:	Not avail	able.
Transport hazard class:	Not avail	able.
Packing group:	Not avail	able.
15. Regulatory Information		
TSCA (United States)		
Not Available.		
California Proposition 65:	Not Available	
NFPA Rating:	Health:	Not available.
- · · · · · · · · · · · · · · · · · · ·	11001011.	

#### 16. Additional Information

Revision Date: 02/04/2020 Printed Date: 02/14/2020

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.

Flammability:

Instability:

Not available.

Not available.