AK Scientific, Inc.

Safety Data Sheet (United States) Trihexyltetradecylphosphonium chloride

1.Identification	
Product name:	Trihexyltetradecylphosphonium chloride
Catalog#:	4645BB
IUPAČ name:	trihexyl(tetradecyl)phosphanium;chloride
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	r: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

2.Hazard Identification:

GHS Classification (United States)

Acute Tox. (category 4) Skin Corr. (category 1B) Skin Sens. (category 1A) Eye Dam. (category 1) Aquatic Acute (category 1) Aquatic Chronic (category 1)

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H302	()	Harmful if swallowed.
H314		Causes severe skin burns and eye damage.
H317		May cause an allergic skin reaction.
H318		Causes serious eye damage.
H400		Very toxic to aquatic life.
H410		Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

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P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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 to fresh air and keep at rest in a position comfortable for

-	breathing.
P305+P351+P338	B 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.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

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

None

3.Composition/Information on Ingredients		
Synonyms:	Not available.	
CAS#:	258864-54-9	
Purity:	>97% (T)	
EC:	684-206-1	

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, Hydrogen chloride, 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 in a cool, dry place.

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

r ersonal protection	
Eyes:	Not Available.
Hands:	Not Available.
Skin and body:	Not Available.
Respiratory:	Not Available.
Respiratory.	Not Available.
9. Physical and Chemical Properties	
Physical State:	Liquid
Molecular Formula:	C32H68ClP
Molecular Weight:	519.3
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	Not available.
Freezing/Melting Point:	Not available.
Flash Point:	118 °C (244 °F)
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	0.895g/mLat 20°C (lit.)
Refractive Index:	1.48
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.

Partition Coefficient:		Not available.
10. Stability and Reactivi	itv	
Reactivity: Chemical stability: Possibility of hazardous reactive Conditions to avoid: Incompatible materials: Hazardous decomposition pro-	Not avai Stable u tions: Not avai Dust gen Strong o	nder recommended temperatures and pressures.
11. Toxicological Information	ation	
RTECS# Acute toxicity: Routes of exposure: Symptoms related to the phys toxicological characteristics:		Not available. LD50 Dermal:Rabbit - > 2,000 mg/kg 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.
	d. ilable ation of the eye is cha ation is characterized	racterized by redness, watering, and itching. Skin by itching, scaling, reddening, or, occasionally,
12. Ecological Information	on	
Ecotoxicity: Persistence and degradability Bioaccumulative potential: Mobility in soil: Other adverse effects:		Not available. Not available. Not available. Not available. Not available.
13. Disposal Considerati	ons	
Disposal of waste: Disposal of packaging:		Not listed Not listed
14. Transportation Inform	nation	
DOT (United States) UN number: Proper shipping name: Transport hazard class: Packing group:	UN1760	o.s. (Trihexyltetradecylphosphonium chloride)

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UN Number:	UN1760
Proper shipping name:	Corrosive liquid, n.o.s. (Trihexyltetradecylphosphonium chloride)
Transport hazard class:	8;Corrosive
Packing group:	II

15. Regulatory Information TSCA (United States)

Not Available.

California Proposition 65: NFPA Rating:

Not Available.. Health: Flammability: Instability:

Not available. Not available. Not available.

16. Additional Information

Revision Date: 03/08/2024 Printed Date: 03/08/2024

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.