

# SAFETY DATA SHEET

Creation Date 25-Oct-2010

Revision Date 18-Jan-2018

**Revision Number** 4

1. Identification **Product Name** (Methoxymethyl)triphenylphosphonium chloride Cat No. : AC146010000; AC146010250; AC146011000; AC146015000 CAS-No 4009-98-7 **Synonyms** Phosphonium, (methoxymethyl)triphenyl-, chloride **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use. Uses advised against Details of the supplier of the safety data sheet Company **Fisher Scientific** Acros Organics One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410

### **Emergency Telephone Number**

Fair Lawn, NJ 07410 Tel: (201) 796-7100

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

### Label Elements

Signal Word Warning

## Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation



## **Precautionary Statements**

## Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection

### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

## Rinse mouth

## Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
(Methoxymethyl)triphenylphosphonium chloride	4009-98-7	>95

4. First-aid measures			
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute medical attention.			
Skin Contact Wash off immediately with soap and plenty of water while removing all contaminate clothes and shoes. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.		
Ingestion Clean mouth with water. Get medical attention.			
Most important symptoms and effects	No information available.		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.

No information available **Unsuitable Extinguishing Media** 

Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

## **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of phosphorus. Hydrogen chloride gas.

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA
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NFPA_ Health 2	Flammability 1	Instability 1	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions Environmental Precautions							
Methods for Containment ar Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.						
	7. Handling	and storage					
Handling	Avoid contact with skin and seek immediate medical as	d eyes. Do not breathe dust. D ssistance.	o not ingest. If swallowed then				
Storage		II-ventilated place. Refer produm produm produm produm produm produm produm produm product strain st	uct specification and/or product container tightly closed.				
	8. Exposure controls	/ personal protecti	on				
Exposure Guidelines		ain any hazardous materials w gion specific regulatory bodies					
Engineering Measures		n, especially in confined areas se to the workstation location.	s. Ensure that eyewash stations				
Personal Protective Equipm	ent_						
Eye/face Protection		e eyeglasses or chemical safe action regulations in 29 CFR 1	ty goggles as described by 910.133 or European Standard				
Skin and body protection	N Wear appropriate protectiv	e gloves and clothing to preve	nt skin exposure.				
<b>Respiratory Protection</b>	No protective equipment is	needed under normal use cor	nditions.				
Hygiene Measures	Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.						

### 9. Physical and chemical properties **Physical State** Powder Solid Off-white Appearance No information available Odor **Odor Threshold** No information available No information available 195 - 197 °C / 383 - 386.6 °F Melting Point/Range Boiling Point/Range No information available Flash Point No information available **Evaporation Rate** Not applicable No information available Flammability (solid,gas) Flammability or explosive limits No data available Upper Lower No data available No information available

Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight** 

pН

## Not applicable No information available No information available No data available No information available No information available Not applicable C20 H20 CI O P 342.79

## 10. Stability and reactivity

Reactive Hazard None known, based on information available	
Stability Hygroscopic.	
Conditions to Avoid Incompatible products. Exposure to moisture.	
Incompatible Materials Strong oxidizing agents, Amines	
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Oxides of phosphorus, Hydrogen chloride gas
Hazardous Polymerization No information available.	
Hazardous Reactions	None under normal processing.
	11. Toxicological information

## Acute Toxicity

## **Product Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation				
(Methoxymethyl)triphenylphosphoni um chloride	>300 mg/kg (Rat)	Not listed	Not listed				
Foxicologically Synergistic No information available   Products Delayed and immediate effects as well as chronic effects from short and long-term exposure							
rritation	Irritating to eyes and skin						
Sensitization	No information available						
Carcinogenicity	The table below indicates whe	The table below indicates whether each agency has listed any ingredient as a carcinogen.					

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
(Methoxymethyl)triphe nylphosphonium chloride	4009-98-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effects		No information available.					
Developmental Effects		No information available.					
Teratogenicity		No information available.					
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information available					
Symptoms / effects,both acute and delayed		No information available					
Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.					

## 12. Ecological information

## Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Reacts with water so no ecotoxicity data for the substance is available.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
(Methoxymethyl)triphenylpho	Not listed	Not listed	Not listed	EC50: 1.5 mg/L/48h
sphonium chloride				

Persistence and Degradability

Persistence is unlikely based on information available.

**Bioaccumulation/Accumulation** 

No information available.

Mobility

Is not likely mobile in the environment.

Component	log Pow
(Methoxymethyl)triphenylphosphonium chloride	-0.69

## 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Technical Name	(Methoxymethyl)triphenylphosphonium chloride
Hazard Class	9
Packing Group	III
TDG	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III

ΙΑΤΑ	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
	15. Regulatory information

## United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
(Methoxymethyl)triphenylphospho nium chloride	4009-98-7	-	-	-

### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
(Methoxymethyl)triphenylphospho	4009-98-7	-	-	223-664-5	Х	Х	Х	Х	-
nium chloride									

## U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland	This product does not contain any DHS chemicals.

Security

## Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific
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Creation Date	25-Oct-2010
Revision Date	18-Jan-2018
Print Date	18-Jan-2018
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**