

# SAFETY DATA SHEET

Creation Date 09-Oct-2009

Revision Date 23-Jan-2018

**Revision Number** 3

# 1. Identification

**Product Name** 

# Dimethyl chlorophosphate

Cat No. :

AC426140000; AC426140050; AC426140250

Synonyms

Dimethyl phosphorochloridate

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

## Details of the supplier of the safety data sheet

### **Company**

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

### **Emergency Telephone Number**

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
Acute dermal toxicity
Acute Inhalation Toxicity - Vapors
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

# Label Elements

Signal Word

# Danger

## **Hazard Statements**

Fatal if swallowed Fatal in contact with skin Causes severe skin burns and eye damage Fatal if inhaled May cause respiratory irritation Category 1 Category 2 Category 2 B Category 1 B Category 1 Category 3



# **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eve protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

Rinse mouth Do NOT induce vomiting

## Storage

### Store locked up

Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Contact with water liberates toxic gas

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Dimethyl chlorophosphate	813-77-4	>95

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.	
Inhalation	Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.	
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.	

Most important symptoms and effects Notes to Physician	ms and Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically			
Suitable Extinguishing Media	0	ng measures Ind, alcohol-resistant foam.		
Jnsuitable Extinguishing Media	DO NOT USE WATER			
Flash Point	113 °C / 235.4 °F			
Method -	No information available			
Autoignition Temperature Explosion Limits	No information available			
Upper	No data available			
Lower	No data available			
Sensitivity to Mechanical Impa Sensitivity to Static Discharge	ct No information available No information available			
Specific Hazards Arising from the Contact with water liberates toxic gas				
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxi Protective Equipment and Precaut As in any fire, wear self-contained bro	ions for Firefighters eathing apparatus pressure-	demand, MSHA/NIOSH (approv	red or equivalent) and full	
Carbon monoxide (CO) Carbon dioxic Protective Equipment and Precaut As in any fire, wear self-contained bro protective gear. Thermal decomposit	ions for Firefighters eathing apparatus pressure-	demand, MSHA/NIOSH (approv	red or equivalent) and full <b>Physical hazards</b> W	
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Carbon monoxide (CO) Carbon dioxic Protective Equipment and Precaut As in any fire, wear self-contained bro- protective gear. Thermal decomposit NFPA Health 4 Personal Precautions Environmental Precautions Methods for Containment and Clear Jp	ions for Firefighters eathing apparatus pressure- on can lead to release of irri Flammability 1 6. Accidental re Ensure adequate ventilati and upwind of spill/leak. E Should not be released in information. In Soak up with inert absorb not expose spill to water. 7. Handling	demand, MSHA/NIOSH (approv tating gases and vapors. Instability 2 elease measures on. Use personal protective equ vacuate personnel to safe area to the environment. See Section ent material. Keep in suitable, cl and storage	Physical hazards W ipment. Keep people away from s. n 12 for additional ecological losed containers for disposal. Do	
Carbon monoxide (CO) Carbon dioxic Protective Equipment and Precaut As in any fire, wear self-contained bro- protective gear. Thermal decomposit NFPA Health 4 Personal Precautions Environmental Precautions Methods for Containment and Clear Jp	ions for Firefighters eathing apparatus pressure- on can lead to release of irri Flammability 1 6. Accidental re Ensure adequate ventilati and upwind of spill/leak. E Should not be released in information. In Soak up with inert absorb not expose spill to water. 7. Handling Use only under a chemica	demand, MSHA/NIOSH (approv tating gases and vapors. Instability 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Physical hazards W ipment. Keep people away from s. of 12 for additional ecological	
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Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	80 °C / 176 °F @ 25 mmHg
Flash Point	113 °C / 235.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.34
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C2 H6 CI O3 P
Molecular Weight	144.49
-	

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water. Exposure to moisture.
Incompatible Materials	Acids, Oxidizing agents, Strong bases
Hazardous Decomposition Produc	ts Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen chloride gas, Oxides of phosphorus
Hazardous Polymerization	Hazardous polymerization does not occur.

Hazardous Reactions       Contact with water liberates toxic gas.         Acute Toxicity.       Product Information         Product Information       No information available         Products       Product System Size         Product Information       Causes burns by all exposure routes         Sensitization       No information available         Carcinogenicity       The table below indicates whether each agency has listed any ingredient as a carcinogen. <u>Omemonent</u> CAS-No         Information available       Not information available         Carcinogenicity       The table below indicates whether each agency has listed any ingredient as a carcinogen. <u>Omemonent</u> CAS-No       Not listed       Not listed       Not listed         Mutagenic Effects       No information available.       Reproductive Effects       No information available.            Developmental Effects       No information available.       Reproductive Effects       No information available.            Stort - repeated exposure Stort - repeated exposure Stort - repeated exposure Stort - repeated exposure Stort - sepasted exposure No information available       Stort - sepasted exposure No information available.         Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Cleavaitet							
Acute Toxicity       Product Information Component Information Toxicologically Synergistic       No information available         Products       Delayed and immediate effects as well as chronic effects from short and long-term exposure.         Irritation       Causes burns by all exposure routes         Sensitization       No information available         Carcinogenicity       The table below indicates whether each agency has listed any ingredient as a carcinogen. <u>Component</u> CAS-NO       IARC       NTP       ACGIH       OSHA       Mexico         Dimethyl       813-77-4       Not listed       Not list	<b>Hazardous Reactions</b> Contact with water liberates toxic gas.						
Product Information Component Information Toxicologically Synergistic       No information available         Products       Causes burns by all exposure routes         Sensitization       No information available         Carlongenicity       The table below indicates whether each agency has listed any ingredient as a carcinogen.         Component       CAS-No       IARC       NTP       ACGH       OSHA       Mexico         Obmethylic       CAS-No       IARC       NTP       ACGH       OSHA       Mexico         Operation       CAS-No       IARC       NTP       ACGH       OSHA       Mexico         Obmethylic       CAS-No       IARC       NTP       ACGH       OSHA       Mexico         Mutagenic Effects       No information available       Not listed       Not listed <th colspan="4">11. Toxicological information</th> <th></th>	11. Toxicological information						
Component Information Toxicologically Synergistic         No information available           Products         Delayed and Immediate effects as well as chronic effects from short and long-term exposure           Irritation         Causes burns by all exposure routes           Sensitization         No information available           Carcinogenicity         The table below indicates whether each agency has listed any ingredient as a carcinogen. <u>Ormponent</u> <u>CAS-No</u> IARC         NTP         ACGIH         OSHA         Mexico           Dimentity         813-77-4         Not listed         Not listed         Not listed         Not listed         Not listed           Mutagenic Effects         No information available.         Reproductive Effects         No information available.           Pevelopmental Effects         No information available.         Start Sta	Acute Toxicity						
Sensitization       No information available         Carcinogenicity       The table below indicates whether each agency has listed any ingredient as a carcinogen.         Image: Carcinogenicity       Image: Carcinogenicity       Image: Carcinogenicity       Not listed       Not listed       OSHA       Mexico         Image: Carcinogenicity       813-77-4       Not listed       No	Component Information Toxicologically Synergistic Products			d long-term expo	sure_		
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Component         CAS-No         IARC         NTP         ACGIH         OSHA         Mexico           Dimethyl chlorophosphate         813-77-4         Not listed         Not liste	Sensitization		No information ava	ailable			
Dimethyl         813-77-4         Not listed         Not listed<	Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient	as a carcinogen.
Dimethyl         813-77-4         Not listed         Not listed<	Component CAS	-No	IARC	NTP	ACGIH	OSHA	Mexico
Mutagenic Effects         No information available           Reproductive Effects         No information available.           Developmental Effects         No information available.           Teratogenicity         No information available.           STOT - single exposure         Respiratory system           STOT - repeated exposure         Respiratory system           No information available         No information available.           Symptoms / effects,both acute and delayed         Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation           Endocrine Disruptor Information         No information available           Other Adverse Effects         The toxicological properties have not been fully investigated.           Ecotoxicity Do not empty into drains.         Persistence is unlikely based on information available.           Bioaccumulation / Accumulation         No information available.           Mobility         Will likely be mobile in the environment due to its volatility.           Mobility         Will likely be generators must determine whether a discarded chemical is classified as	Dimethyl 813-7	-					
Reproductive Effects       No information available.         Developmental Effects       No information available.         Teratogenicity       No information available.         STOT - single exposure       Respiratory system         STOT - repeated exposure       No information available.         Stot - single exposure       Respiratory system         Aspiration hazard       No information available         Symptoms / effects,both acute and delayed       Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation         Endocrine Disruptor Information       No information available         Other Adverse Effects       The toxicological properties have not been fully investigated.         Ecotoxicity       Do not empty into drains.         Persistence and Degradability       Persistence is unlikely based on information available.         Bioaccumulation/ Accumulation       No information available.         Mobility       Will likely be mobile in the environment due to its volatility.         Vill likely be mobile in the environment due to its volatility.       13. Disposal considerations			No information ava	l			
Developmental EffectsNo information available.TeratogenicityNo information available.STOT - single exposure STOT - repeated exposureRespiratory system None knownAspiration hazardNo information availableSymptoms / effects,both acute and delayedProduct is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforationEndocrine Disruptor InformationNo information availableOther Adverse EffectsThe toxicological properties have not been fully investigated.Ecotoxicity Do not empty into drains.Persistence is unlikely based on information available.Bicaccumulation / AccumulationNo information available.MobilityWill likely be mobile in the environment due to its volatility.MobilityChemical waste generators must determine whether a discarded chemical is classified as	-						
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STOT - repeated exposureNone knownAspiration hazardNo information availableSymptoms / effects,both acute and delayedProduct is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforationEndocrine Disruptor InformationNo information availableOther Adverse EffectsThe toxicological properties have not been fully investigated.Ecotoxicity Do not empty into drains.Persistence is unlikely based on information available.Bioaccumulation / AccumulationNo information available.MobilityWill likely be mobile in the environment due to its volatility.Maste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as	Teratogenicity		No information available.				
Symptoms / effects,both acute and delayed       Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation         Endocrine Disruptor Information       No information available         Other Adverse Effects       The toxicological properties have not been fully investigated. <u>12. Ecological information</u> 12. Ecological information         Bo not empty into drains.       Persistence and Degradability         Persistence and Degradability       Persistence is unlikely based on information available.         Mobility       Will likely be mobile in the environment due to its volatility.         13. Disposal considerations       Vaste Disposal Methods							
delayed       Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation         Endocrine Disruptor Information       No information available         Other Adverse Effects       The toxicological properties have not been fully investigated.         Image: teacher t	Aspiration hazard		No information available				
Other Adverse Effects       The toxicological properties have not been fully investigated.         Image: Description of the second			Possible perforation of stomach or esophagus should be investigated: Ingestion causes				
Interview of the second secon	Endocrine Disruptor Information		No information ava	ailable			
Ecotoxicity       Point of ains.         Persistence and Degradability       Persistence is unlikely based on information available.         Bioaccumulation/ Accumulation       No information available.         Mobility       Will likely be mobile in the environment due to its volatility.         13. Disposal considerations         Waste Disposal Methods       Chemical waste generators must determine whether a discarded chemical is classified as	Other Adverse Effects		The toxicological p	properties have not	t been fully investig	gated.	
Do not empty into drains.         Persistence and Degradability       Persistence is unlikely based on information available.         Bioaccumulation/ Accumulation       No information available.         Mobility       Will likely be mobile in the environment due to its volatility.         13. Disposal considerations         Waste Disposal Methods       Chemical waste generators must determine whether a discarded chemical is classified as		12. Ecolo	ogical infor	mation			
Bioaccumulation/ Accumulation       No information available.         Mobility       Will likely be mobile in the environment due to its volatility.         13. Disposal considerations         Waste Disposal Methods       Chemical waste generators must determine whether a discarded chemical is classified as							
Mobility       Will likely be mobile in the environment due to its volatility.         13. Disposal considerations         Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is classified as	Persistence and Degradability		Persistence is unlikely based on information available.				
13. Disposal considerations         Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is classified as	<b>Bioaccumulation/Accumulation</b>		No information available.				
Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is classified as	Mobility		Will likely be mobil	e in the environme	ent due to its volatil	lity.	
national hazardous waste regulations to ensure complete and accurate classification.	Waste Disposal Methods	hazardous waste. Chemical waste generators must also consult local, regional, and					
14. Transport information			14. Tran	sport inform	mation		
DOT	DOT						

UN-No Proper Shipping Name Proper technical name Hazard Class Subsidiary Hazard Class Packing Group TDG	UN2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. Dimethyl chlorophosphate 6.1 8 I
UN-No	UN2927
Proper Shipping Name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	1
UN-No	UN2927
Proper Shipping Name	Flammable solid, organic, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	
IMDG/IMO	100007
UN-No	UN2927
Proper Shipping Name	Flammable solid, organic, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	
	15. Regulatory information

### International Inventories

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b)	Not applicable
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 Not applicable	a Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

### Mexico - Grade

Slight risk, Grade 1

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	09-Oct-2009 23-Jan-2018 23-Jan-2018 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**