

SAFETY DATA SHEET

Creation Date 08-Mar-2012

Revision Date 25-Dec-2021

Revision Number 4

1. Identification 2-Chloro-1,3,2-dioxaphospholane-2-oxide

Product Name

AC332060000; AC332060050; AC332060250; AC332061000

Cat No. : CAS No

Synonyms

6609-64-9 No information available

Recommended Use Uses advised against Laboratory chemicals.

Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company 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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Category 1 B Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes severe skin burns and eye damage



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face 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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Reacts violently with water

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
2-Chloro-1,3,2-dioxaphospholar	ne 2-oxide	6609-64-9	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	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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. If breathing is difficult, give oxygen. Immediate medical attention is required.					
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.					
Most important symptoms and effects	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					
Notes to Physician	Treat sympto	matically				

5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO $_{\mbox{\tiny 2}}$). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	> 110 °C / > 230 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower Sensitivity to Mechanical Impact	No data available No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Reacts violently with water. Contact with water liberates toxic gas.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). 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.

<u>NFPA</u>	Health 3	Flammability 1	Instability 2	Physical hazards W		
		6. Accidental re	lease measures			
Personal	Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Evacuat personnel to safe areas.					
Environn	nental Precautions	Should not be released int	o the environment.			
Methods Up	for Containment and (Clean Soak up with inert absorbe sawdust). Keep in suitable		el, acid binder, universal binder, al. Do not expose spill to water.		
		7. Handling	and storage			
Handling		Do not breathe mist/vapors	s/spray. Do not get in eyes, or	rotective equipment/face protection. I skin, or on clothing. Do not allow ediately after handling the product.		
Storage.		Keep container tightly closed. Corrosives area. Store in freezer. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong bases.				
	8	. Exposure controls	/ personal protect	ion		
Exposure	e Guidelines		ain any hazardous materials o gion specific regulatory bodies			
Engineer	ing Measures	Ensure adequate ventilation	n, especially in confined area	S.		
<u>Personal</u>	Protective Equipment	<u>-</u>				

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	Colorless
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	11 - 14 °C / 51.8 - 57.2 °F
Boiling Point/Range	98 - 99 °C / 208.4 - 210.2 °F @ 2 mmHg
Flash Point	> 110 °C / > 230 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.550
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 H4 CI O3 P
Molecular Weight	142.48
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10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Water reactive. Contact with water liberates toxic gas.	
Conditions to Avoid	Incompatible products. Exposure to moist air or water.	
Incompatible Materials	Strong oxidizing agents, Strong bases	
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Oxides of phosphorus, Hydrogen chloride gas	
Hazardous Polymerization	No information available.	
Hazardous Reactions	Contact with acids liberates toxic gas. Reacts violently with water.	
	11. Toxicological information	
Acute Toxicity		
Product Information Component Information	No acute toxicity information is available for this product	

Toxicologically Syn Products	ergistic	No information available				
Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		Causes burns by a	all exposure routes			
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinoge				as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2-Chloro-1,3,2-dioxaph ospholane 2-oxide	6609-64-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	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 Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		
<u>Ecotoxicity</u> Do not empty into dra	ains.					
Persistence and De	gradability	No information ava	ailable			
Bioaccumulation/ A	ccumulation	No information ava	ailable.			
Mobility		No information ava	ailable.			
		13. Dispo	sal conside	erations		
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				gional, and
		14. Trar	nsport inform	mation		
DOT UN-No Proper Shipping Technical Name Hazard Class Packing Group <u>TDG</u> UN-No		UN3265 Corrosive liquid, acidic, organic, n.o.s. 2-Chloro-1,3,2-dioxaphospholane 2-oxide 8 II UN3265				
Proper Shipping	y Name	Corrosive liquid, a	cidic, organic, n.o.	S.		

Hazard Class	8
Packing Group	II
<u>IATA</u>	
UN-No	UN3265
Proper Shipping Name	Corrosive liquid, acidic, organic, n.o.s.
Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN3265
Proper Shipping Name	Corrosive liquid, acidic, organic, n.o.s.
Hazard Class	8
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2-Chloro-1,3,2-dioxaphospholane	6609-64-9	-	-	-
2-oxide				

Legend:

TSCA US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2-Chloro-1,3,2-dioxaphospholane 2-oxide	6609-64-9	-	-	229-560-6	-	-		-	-	-
2-oxide										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

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
OSHA - 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

U.S. Department of Transportat	ion
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	<u>8</u>

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2-Chloro-1,3,2-dioxaphosphol ane 2-oxide	6609-64-9	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
2-Chloro-1,3,2-dioxaphosphol ane 2-oxide	6609-64-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	08-Mar-2012 25-Dec-2021 25-Dec-2021 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