

SAFETY DATA SHEET

Creation Date 08-Oct-2009

Revision Date 23-Jan-2018

Revision Number 4

1. Identification

Chlorodiphenylphosphine

Cat No. :

Product Name

AC109130000; AC109130050; AC109130250; AC109131000;

CAS-No **Synonyms** 1079-66-9 No information available

AC109135000

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)

gory 1
gory 4
gory 1
gory 1
gory 3

Label Elements

Signal Word Danger

Hazard Statements

May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation

В



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 breathe dust/fume/gas/mist/vapors/sprav Wear protective gloves/protective clothing/eve protection/face protection Use only outdoors or in a well-ventilated area Keep only in original container 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 Rinse mouth Do NOT induce vomiting Spills Absorb spillage to prevent material damage Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Harmful to aquatic life with long lasting effects Reacts violently with water Harmful to aquatic life

3. Composition/Information on Ingredients

Compo	nent	CAS-No	Weight %		
Phosphinous chlo	ride, diphenyl-	1079-66-9	>95		
	4. F	irst-aid measures			
General Advice	Immediate med attendance.	dical attention is required. Show this s	afety data sheet to the doctor in		
Eye Contact		tely with plenty of water, also under th dical attention is required. Keep eye w	5		
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call a physician immediately.			

Inhalation	If breathing is difficult, give oxygen. 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. Remove from exposure, lie down. Call a physician immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Call a physician 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 symptomatically
	E Fire fighting measures

	5. Fire-fighting measures
Suitable Extinguishing Media	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	DO NOT USE WATER
Flash Point	138 °C / 280.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Contact with water liberates toxic gas. Reacts violently with water.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen chloride gas Oxides of phosphorus Thermal decomposition can lead to release of irritating gases and vapors

Protective Equipment and Precautions for Firefighters

Thermal decomposition can lead to release of irritating gases and vapors. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 3	Flammability 1	Instability 2	Physical hazards W
	6. Accidental re	lease measures	
Personal Precautions	and upwind of spill/leak. E	vacuate personnel to safe area	
Environmental Precautions		o the environment. Do not flush n 12 for additional ecological in ge.	
Methods for Containment and Clo Up	ean Soak up with inert absorbond not expose spill to water.	ent material. Keep in suitable, cl	losed containers for disposal. Do
	7. Handling	and storage	
Handling	Use only under a chemica	I fume hood. Wear personal pro	tective equipment. Do not get in

Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe vapors or spray mist. Do not

	allow contact with water.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from water. Store under an inert atmosphere.
8. E:	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
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. Tightly fitting safety goggles. Face-shield.
Skin and body protection	Long sleeved clothing.
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 a	and chemical properties
Physical State	Liquid
Appearance	Light yellow
Odor	pungent
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	320 °C / 608 °F
Flash Point	138 °C / 280.4 °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	1.3 hPa @ 20 °C
Vapor Density	7.8
Specific Gravity	1.229
Solubility	Reacts violently with water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C12 H10 CI P
Molecular Weight	220.64

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	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride gas, Oxides of phosphorus, Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing. Reacts violently with water.
	11. Toxicological information

Product Information

Acute Toxicity

Product Information Component Informa								
Component		LD50 Oral		LD50 Dermal	LC50	Inhalation		
Phosphinous chloride		316 mg/kg (Rat)		>2g/kg (Rat)		t listed		
Toxicologically Syn	ergistic	No information available	No information available					
Products	-							
Delayed and immed	iate effects	as well as chronic effect	cts from short ar	d long-term expo	osure			
Irritation		Causes burns by al	Causes burns by all exposure routes					
Sensitization		No information avail	ilable					
Carcinogenicity		The table below inc	The table below indicates whether each agency has listed any ingredient as a ca					
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico		
Phosphinous chloride, diphenyl-	1079-66	-9 Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information available							
Reproductive Effect	ductive Effects No information available.							
Developmental Effe	cts	No information avail	No information available.					
Teratogenicity		No information avail	No information available.					
STOT - single expos STOT - repeated exp		Respiratory system None known	Respiratory system None known					
Aspiration hazard		No information avail	ilable					
Symptoms / effects delayed	,both acute	Possible perforation	nd 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 Informatio	on No information avai	No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.					gated.			

12. Ecological information

Ecotoxicity

Do not empty into drains. Harmful 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.

Persistence and Degradability

Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation	No information available.					
Mobility	Is not likely mobile in the environment.					
	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					
DOT						
UN-No	UN3265					
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.					
Proper technical name Hazard Class	Phosphinous chloride, diphenyl- 8					
Packing Group	8 					
TDG						
UN-No	UN3265					
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.					
Hazard Class	8					
Packing Group	II.					
IATA						
UN-No	UN3265					
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.					
Hazard Class	8					
Packing Group	ll					
IMDG/IMO						
UN-No Decrea Shinning Name						
Proper Shipping Name Hazard Class	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.					
Packing Group	8 II					
	15. Regulatory information					

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phosphinous chloride,	Х	-	Х	214-093-2	-		Х	Х	Х	Х	-
diphenyl-											

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				
OSHA Occupational Safety and Heal Not applicable	th 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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N				
U.S. Department of Homeland Sect This product does not contain any DF					
Other International Regulations					
Mexico - Grade	Slight risk, Grade 1				
Mexico - Grade	Slight risk, Grade 1 16. Other information				
Mexico - Grade Prepared By					

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

Harmonized System of Classification and Labeling of Chemicals (GHS).

End of SDS