

Material Safety Data Sheet. No: 1028-R00

Section 1 : Chemical Identification

Catalogue No.:	1028-XXXX	Name:	Chlorophosphitylating Reagent
-----------------------	-----------	--------------	-------------------------------

Section 2 : Composition/information on Ingredients

Chemical Name	CAS No.	EINECS No.
2-Cyanoethoxy-N,N-diisopropylaminochlorophosphine	89992-70-1	N/A

Section 3 : Hazards Identification

Main Hazard	Corrosive Liquid, Flammable N.O.S.
Other Specific Hazards	

Section 4 : First Aid Measures

Eyes	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION
Skin	In case of contact, remove contaminated clothing, immediately wash skin with soap and copious amounts of water. OBTAIN MEDICAL ATTENTION
Ingestion	Induce vomiting and washout mouth with water provided the person is conscious. OBTAIN MEDICAL ATTENTION
Inhalation	Immediately remove to fresh air. If not breathing, give artificial respiration. OBTAIN MEDICAL ATTENTION

Section 5 : Fire Fighting Measures

Extinguishing Media	Carbon dioxide, dry chemical powder or appropriate foam.
Special Hazards of Product	Formation of toxic gasses is possible during heating – may release Carbon Monoxide (CO), Nitrogen Oxides (NOx), Phosphorus oxides.
Protective Equipment for Fire Fighting	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 : Accidental Release Measures

Personal Protection	Wear protective clothing, respirator, chemical safety goggles, rubber gloves and rubber boots
Leaks and Spills	Clean the contaminated area thoroughly with a suitable solvent and absorbent material taking care to avoid breathing fumes. Dispose of all cleaning materials with care (see section 13)

Section 7 : Handling and Storage

Handling	Wear protective clothing, gloves and safety goggles. Use in a fume extraction cabinet. Avoid contact with eyes, skin and clothing. Avoid inhalation. Wash thoroughly after handling
Storage	Store at room temperature away from sources of ignition. Do not store with alkalis or caustic substances

Section 8 : Exposure controls/Personal Protection

Exposure Controls	See Section 7 above
Personal Protection	Protective gloves, goggles or laboratory spectacles and clothing are recommended. See also sections 6 and 7 above.

Section 9 : Physical and Chemical Properties

Physical State	Liquid	Boiling Point	103-105°C @ 0.08mm Hg
Melting Point	N/A	Explosion Limits	
Flash Point	>110°C	Solubility (Org. Solvents)	Acetonitrile, Dichloromethane
Solubility (Water)	Reacts with water	Molecular Weight	236.68
Chemical Formula	C ₉ H ₁₈ N ₂ OClP		
Other Information			

Section 10 : Stability and Reactivity

Chemical Stability	Stable at room temperature
Incompatibilities	Alkalis and caustic substances; water
Hazardous Decomposition or Combustion Products	Oxides of Nitrogen and Phosphorus; Carbon Monoxide
Hazardous Polymerisation	None

Section 11 : Toxicological Data

Toxic Effects	Product not fully tested – data unavailable. Treat with care.
Other Toxicological Data	

Section 12 : Ecological Information

Data not yet available. In use, caution should be exercised to minimise release into the environment by using appropriate containment procedures

Section 13 : Disposal Information

Dispose by incineration at high temperature in an approved incinerator fitted with appropriate environmental protection equipment. Dispose of in accordance with all applicable Local, National, State and Federal regulations. Labels should not be removed from containers until they have been thoroughly cleaned in an appropriate manner. Containers should not be treated as domestic waste and disposed of appropriately. Always use an approved disposal company.

Section 14 : Transport Information

UN No.	3265	UN Class	8	UN Packing Gp.	II
Road Freight	Corrosive liquid, flammable N.O.S.				
Sea Freight	IMDG Class 8				
Air Freight	IATA Class 8				

Section 15 : Regulatory Information

European Information:

R Phrases	R34 – Causes burns R36/37 – Irritating to eyes and respiratory system
S Phrases	S26 In case of contact with eye, rinse immediately with plenty of water and seek medical advice S36/37 – Wear suitable protective clothing and gloves S45 – In case of accident or if you feel unwell, seek medical advice immediately (show label whenever possible)

Section 16 : Other information

MSDS First Issued	Apr 08	MSDS Last Revision	Apr 08	MSDS Version	R00
--------------------------	--------	---------------------------	--------	---------------------	-----

The information contained in this publication 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 this information, and Link Technologies assumes no liability from its use. It remains the responsibility of the user to ensure that the products are used for the particular purpose intended. Link Technologies assumes no liability whatsoever and will not be held responsible for any losses or claims however arising out of the use of this information, the application, the adaptation or processing of the materials supplied. At all times it is the responsibility of the user to ensure that these products are used in a professional manner, by individuals competent in their use who are fully aware of the hazards associated with their use.