


Phosphine and Carbon Dioxide Combinations to Manage Stored Pests

<i>Salient features</i>	<ul style="list-style-type: none">➤ Phosphine and carbon dioxide combinations as fumigants.➤ Carbon dioxide acts as the propellant and it reduces the dosage of phosphine during fumigation.➤ No residues were found in the treated paddy and rice.➤ It doesn't affect the germination of paddy.➤ Airtight bins made using PVC with gas controlling system is more suitable for storage of grains at household level.
<i>Advantages</i>	<ul style="list-style-type: none">✓ Phosphine and carbon dioxide combinations can be used for storage of food grains under bulk storage using phosphine generators which are commercially available.✓ It is more suitable for organic and high value commodities✓ Sole application of carbon dioxide in modified atmospheres for stored pest disinfestations requires longer exposure time. This can be reduced by the addition of phosphine @ 1g/m³ of and phosphine @ 2g/m³
	
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Meenatchi, R., Sujeetha, J. A. and Paulin Patricia, P. 2018. Synergistic effect of phosphine and carbon dioxide on the mortality of *Triboliumcastaneum* (*Coleoptera Tenebrionidae*) in paddy. *Journal of Agricultural Science*, 10 (7): 503–510.

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