



GLOBUS WAREHOUSING AND TRADING PVT. LTD.

Standard Operating Procedures- Use of Hazardous Chemicals in Foodgrain

GLOBUS WAREHOUSING TRADING STANDARD OPERATING PROCEDURE

USE OF HAZARDOUS CHEMICALS IN FOODGRAIN MANAGEMENT	S.O.P		REV
	SWO/SOP/2020	1.0	-

INTRODUCTION

1. Purpose: To List out the do's and dont's while using hazardous chemicals during storage of foodgrains and disposal of containers of chemicals.
2. Personnel Concerned:

Site	Regional Office(Monitoring)	Head Office(Monitoring)
Station Manager	President	CEO
Addl. Station Manager	DGM	General Manager
Deputy Manager	Admin Officer	DGM
Asst. Manager		Manager
Technical Asst.		Asst. Manager
Supervisor		
Godown Asst.		
ASO		
Security Shift Incharge/Supervisor		
Security Guards		
SafaiKaramChari		

3. Originator: Office of the CEO, Delhi.
4. Distribution: Headquarter, Regional Office, Station managers and Security Division.

USE OF HAZARDOUS CHEMICALS IN FOODGRAIN MANAGEMENT

S. No.	Role Name/Title	Belong To Function	Role in Process	Experience Requirements	First Person Responsible (FPR) or Second Person Responsible (SPR)	Criticality of Role H= High M=Medium L=Low
1	Fumigation Operation	Curative treatment	Technical Assistant with Quality Control background	NA	T.A [FPR] Station Manager[SPR]	H
2	Spraying Operation	Prophylactic treatment	Technical Assistant with Quality Control background	NA	T.A [FPR] Station Manager[SPR]	M

The following disinfestations measures are adopted in our warehouses to keep the food grains free from pest to prevent quantitative & qualitative loss to food grains.

S.No.	Name of the Pesticides	Dilution	Dosages	Periodicity	Responsibility for operations & Records
1	PROPHYLACTIC TREATMENT				
	DDVP 76% EC	1:150	On walls/ alleyways/Empty Space. 3 Ltrs of prepared solution per 100 Sq. Meters (1000 Sq. ft)	i) Godowns to be disinfested before storage with DDVP. ii) During storage sprays to be undertaken once in two weeks iii) Spray of DDVP is essential before a day of degassing	TA or M(QC)/ Station Manager
	Malathion 50% EC	1:100	On walls/ alleyways, Bags surface. 3 Ltrs of prepared solution per 100 Sq. mtr to controls insects & avoid cross infestation	Every fortnight after degassing on 20% of stocks stored	TA or M(QC)/ Station Manager
	Deltamethrin 2.5 w.p	40gms/Ltr	3 Ltrs of prepared solution per 100 sq. mtr.	Once in 90 days on 80% of stocks stored or after fumigation.	TA or M(QC)/ Station Manager
2	CURATIVE TREATMENT				
	Aluminium Phosphide	9gms/MT of Food grains	Fumigation under gas proof cover. Exposure period 5-7 days	Immediately when the infestation of pest is noticed. Pre-monsoon fumigation before 30th June & Post monsoon before 30th September maximum 4 rounds of fumigation in a year	TA or M(QC)/ Station Manager
3	GENERAL				

a) Godowns should always be in spic & span condition (Inside & Outside). Dunnage used should be pest free.

b) Regular aeration of food grains is necessary for control of moisture, temperature & Infestation.

c) All stacks require brushing before start of any treatment & after curative treatment by TA or M(QC). Thereafter on fortnightly basis.

d) On detection of insects/pests, house flies, mosquito, lizard/spider, flying insects or termite pests etc., either inside or anywhere in the complex, the treatment to be imparted as per advise of horticulture division or on recommendations of QC team after taking due approval depending upon the situation.

e) If there is any rat borrows, Alp should be introduced & holes plugged with clay (wet mud plastering). After 24 Hours, the clay (wet mud plastering) should be removed & openings should be plugged with cement mixed with pieces of broken glass. Use of bait stations to arrest rats is also very essential.

DO'S

1. Strictly follow the manufacturers instructions on the labels before using the chemicals.
2. The Station Manager should ensure availability of "FIRST AID BOX" containing recommended medicines to meet the emergent situation.
3. Pesticides should be stored in the original containers and are required to be kept in locked cabinets, in stores having no water leakage issues or fenced areas where they are not accessible to children.
4. The doors of the chemical stores should be kept open for 5/10 minutes before entering the store for taking out the chemicals for regular use.
5. The operators should ensure cleaning of hands with water before and after the use of chemicals. The plastic or rubber gloves and gas masks should also be worn when using/handling chemicals.
6. The containers of chemicals are required to be opened with plastic openers only.
7. The water or liquid used in washing of the equipments/ chemicals beyond the expiry dates and baits which have become stale, the same are required to be properly disposed off preferably in barren land or it should be dumped in deep pits covered with earth.

8. The foodgrain bags are essentially required to be cleaned before spraying Malathion or Deltamethrin.
9. All nuts and bolts etc. of the equipment used for spraying are required to be tightened to ensure that liquid does not seep over the clothing of the operator.
10. It should be ensured that WP formulations are mixed properly before filling into spray equipment to avoid clogging of nozzle.
11. While using hand sprayers, the nozzle should be held about 30 cm away from the surface to be sprayed and should be moved at about 60 cm per second to get the desired output.
12. While spraying with a motorized knapsack sprayer, care should be taken not to run the engine faster than it is necessary for distributing the spray on surfaces.
13. Care should be taken when climbing on stacks or up ladders to treat high places, because the weight of the sprayer on the back can upset the balance.
14. A check should be made immediately after spraying ensuring that all areas have been treated and that correct amount of spray has been applied.
15. Move to open areas immediately after releasing fumigants.
16. A return visit should be made to confirm that the treatment was effective.
17. Spray solutions from concentrated pesticides should be prepared in deep bottomed vessels with the help of long handled mixtures to protect the operator from the splash of the pesticides.
18. The operators must wear gloves while handling dead rodents. The dead rodents should either be burnt or buried sufficiently deep to prevent access to dogs or cats.
19. The operators must wear face masks and should have sufficient training to handle the poisonous pesticides.
20. While undertaking fumigation with aluminum Phosphide, at least two operators must be present of which one must be fully experienced and well trained in giving "FIRST AID".

21. Suitable respirators and other protective clothing must be available for all personnel involved in the application of the fumigants.
22. The operators' in-charge of fumigation should ensure following of all the prescribed safety precautions including displaying of warning notices for the likely presence of dangerous concentrations in any area near the fumigation enclosures.
23. The use time of gas canister should be recorded immediately after use.
24. The treatment record should be maintained on daily basis.

DONT'S

1. Pesticides should not be put to use after the expiry date
2. Pesticides should not be stored with foods, feed, fertilizers or other materials that may become contaminated.
3. Never use the empty containers of pesticides for any purpose other than for storing the pesticides.
4. Do not tear open the pesticides containers but cut them with a knife.
5. Do not keep your food and drinking water near the pesticides and in the area of operations.
6. Do not apply water based sprays directly on electrical equipments.
7. The operator should not eat, drink or smoke while undertaking operations.

DISPOSAL OF CONTAINERS OF CHEMICALS

All Station Managers should strictly follow the instructions in consultation with the representative of Pungrain/FCI or as mentioned in the MTF which states

“The Agency/Contractor will also have to maintain the record of the insecticides consumed from time to time and also the empty container/tubes, which will be disposed of with the prior approval of the Head Office and also in the presence of the Authorized Representative of the Regional Office.”

Authorized Signatory:

Chief Executive Officer
Head Office
New Delhi

Effective Date

Name	Designation	Warehouse	Contact Number	E-mail ID
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Mr.Surinder Singh	Manager (Quaility)	Patti	7087003868	patti@gwtpl.co