
SOON SOON OILMILLS TECHNICAL BULLETIN

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African Swine Fever:
Don't let it enters your farm



SOON SOON OILMILLS SDN BHD(37441-T)

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AFRICAN SWINE FEVER: DON'T LET IT ENTERS YOUR FARM

African swine fever is spreading in East Asia and is creeping towards Southeast Asia. This disease only affects pigs but it is highly contagious and often fatal. If it reaches Malaysia, the domestic trade of pig and pork will be affected. Currently, there is no treatment available for ASF, and the only thing that we can do is to adopt a proper preventative strategy. With a proper biosecurity set up, we can assure the safety of our pigs, ensuring our business survivability and growth during ASF outbreak.

What are the clinical signs?

- High fever (up to 42°C),
- Depression and loss of appetite,
- Coughing and respiratory rate increased ,
- Vomiting and diarrhea (sometimes bloody),
- Hyperaemia and cyanosis,
- Necrotic lesions on skin of the abdomen, neck, and ears,
- Discharges from the eyes and nose,
- Mortality occurs after 1 to 2 weeks, can reach 100%.

How can ASF be transmitted?

- Direct contact with infected pig, usually through oronasal route (e.g. saliva, nasal discharge, feces).
- Contact with contaminated surfaces or inanimate objects (e.g. clothing, equipment, vehicles).
- Bites from infected ticks.
- Aerosol transmission is limited, but possible if pigs were densely housed.
- **Transmission through contaminated feed and feed ingredients.** (Soon Soon can help)

How to prevent your farm from ASF?

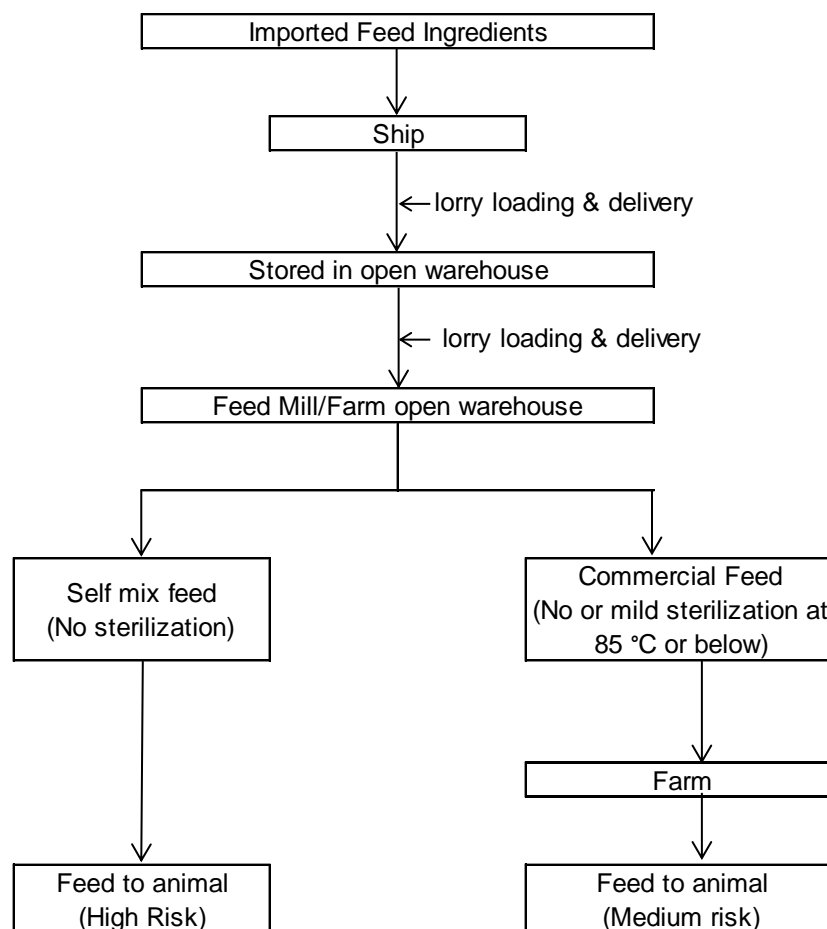
1. Impose strict farm biosecurity and ensure all workers are aware and follow the biosecurity procedures.
2. No guests or visitors should be allowed in your farm, unless deemed necessary (e.g. veterinarian). In this case, all visitors should be provided or wear clean clothes and shoes before entering the farm.
3. Clean and disinfect all equipment and vehicles entering or leaving your farm.
4. Seek veterinarian advice promptly if your pigs are unwell.

How to prevent transmission through feed and feed ingredients?

1. **Do not buy feed and feed ingredients from exposed warehouses or factories.**
2. Buy feed ingredients that are freshly produced which are stored in silo or enclosed bins and have not been in contact directly with the ground.
3. Use feed that undergo high temperature ($>100^{\circ}\text{C}$) processing, such as Granular feeds which uses high temperature of above 100°C and pressure exceeding 20 bar for a short time. This ensures that all ASF viruses and pathogens will be killed whilst maintaining the maximum nutrient availability.

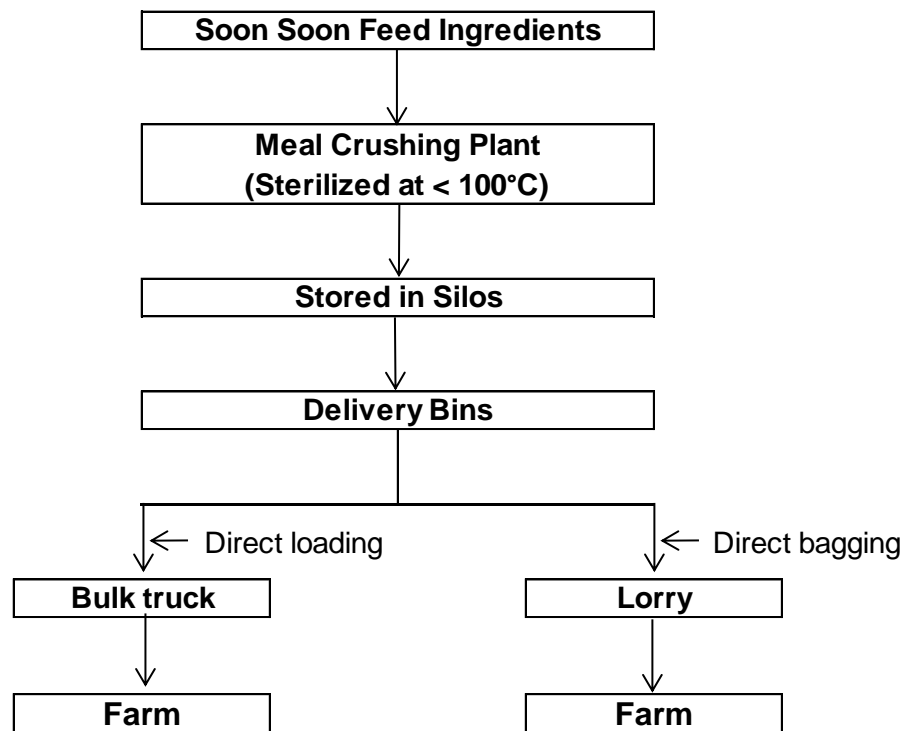
Problem with open warehouse storage.

Open warehouse storage of feed and feed ingredients are prone to cross contamination, either through lorries entering the warehouse or through direct contact with workers, pests or fomites. This results in a higher risk of disease transmission from feed and feed ingredients to the animals.

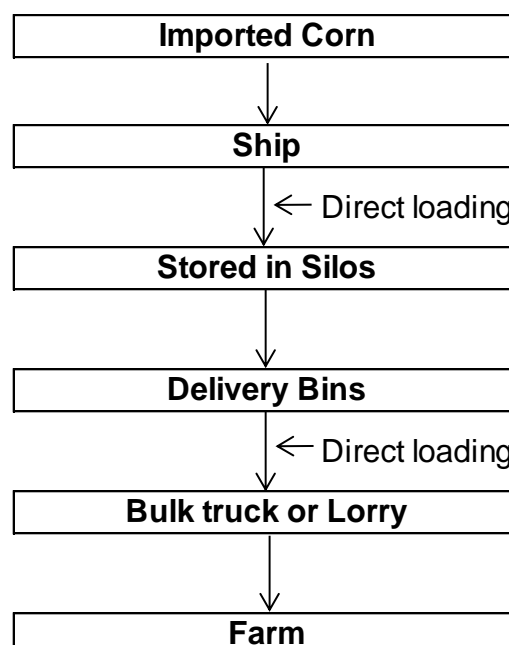


How Soon Soon can help to ensure safety of your feed and feed ingredient?

1. Soon Soon High Efficiency Meal are all freshly produced and have been sterilized through processing at high temperature processing ($<100^{\circ}\text{C}$). All meals are stored in enclosed silos after production, and are loaded directly in bulk or bags onto lorry.



2. Soon Soon new approach for silo-stored corn can help to reduce the risk of cross contamination that commonly happens in open warehouse. These ingredients are collected directly from ship and stored in enclosed silos. Loading is directly from silo onto lorry with little or no contact with workers during the transfer.



3. Alternately, granular feed provide a safe option, ensuring complete elimination of pathogen and virus during its production.

	Granular Feed	Mash Feed	Pelleted Feed
Method	Extruder process	Non-cook	Hygienizer process
Condition	More than 100°C, 20 bar	No heat treatment	85°C or below
Effect	Eliminate pathogen	No reduction in pathogen	Reduce pathogen
Risk	NIL	High	Medium

Summary

- Buy Feed ingredients from open warehouse: High risk of contamination
- Buy Feed ingredients loaded directly from silo: Low risk of contamination
- Buy complete feed cooked at 100°C, 20 bar: Very Low risk of contamination