



Schedule K: Risk Management Measures – Storage of Fertilizer

Please select (by circling Yes, No, or N/A) the measures which are in place or will be implemented (and the date) in order to manage any risk from the activity.

K1 Storage maintenance

A preventive maintenance program is in place to prevent breakdowns and failures through adjustment, repair, or replacement of equipment before a major breakdown or failure occurs. Appropriate action is taken promptly if needed.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K2 Storage integrity

Commercial fertilizer storage is located inside a building.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K3 Storage integrity

The facility is located on dry, stable surfaces outside of the 1 in 100 year floodplain as regulated by your local Conservation Authority.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K4 Storage integrity

The surface is graded around the perimeter of the facility so that roof drainage flows freely away from the storage area.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K5 Storage integrity

The facility is a minimum separation distance of 60 m (200 ft.) from dwellings.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____



K6 Storage integrity

The facility is a minimum separation distance of 90 m (300 ft.) from surface water and wells.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K7 Storage integrity

The facility is protected from fires by being separated a minimum of 30 m (100 ft.) from other buildings or by using fire separation, such as exterior walls, with a minimum fire-resistance rating of 1 hour.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K8 Storage integrity

The facility is used exclusively for fertilizer storage and has appropriate warning signs.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K9 Storage integrity

No floor drains are present.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K10 Storage integrity

The storage area is vented and screened to the outside atmosphere.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K11 Storage integrity

There is a secondary containment area that is constructed with an impermeable material with a full curb (no drain) and can contain 110% of the volume of the largest tank.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____



K12 Reducing or eliminating stored quantities of fertilizers

Purchase only what is required for immediate use, as close to time of use as possible. This requires accurate estimation of what fertilizer quantities are needed.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K13 Rinsate disposal

Rinsate from empty fertilizer application equipment is applied to crops according to label directions and specifications and setbacks are respected.

Type of Measure: Containment
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K14 Fertilizers mixing/loading zones

Consider mixing and/or loading fertilizer outside of the vulnerable areas.

Type of Measure: Spatial
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K15 Establish buffer zone

A contaminant protection zone is established to ensure the location of chemical storage facilities are a minimum 24 m (80 ft.) distance away from a water body or watercourse.

Type of Measure: Spatial
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K16 Existing drainage

Storage tanks are not located over any existing piping or drainage system.

Type of Measure: Spatial
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K17 Monitoring programs

Surface water monitoring and inspections are done in intervals following the application of fertilizer. Appropriate action is taken if necessary.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____



K18 Supervision by trained personnel

The filling of equipment with fertilizer is continuously supervised and done by trained farm personnel.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K19 Supervision of tank filling

There is constant supervision to reduce the risk of back siphoning or overfilling of sprayer tank rinsing or washing spray equipment. A permanent anti-backflow, 6 inch air gap or a separate water tank will be used when filling sprayer tanks.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K20 Well testing

Well water is tested every year for parameters such as nitrate.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K21 Identification

Products are kept in their original containers with proper labels. Labels are kept on file in the case that the original label becomes unreadable.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K22 Security

The area of commercial fertilizer storage is in a locked fenced area or in a locked building.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K23 Alarm system

There is an installed alarm system that will alert appropriate personnel of any leaks or breaches.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____



K24 Automatic valves

There are automatic valves to prevent storage tanks from being overfilled and the containment and collection of spills and storm runoff.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K25 Leak and spill response

Leak tests are completed regularly and the tanks are inspected routinely. Any spills are reported to the Spills Action Center. Any repairs or maintenance is done in a timely manner.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K26 Inventory

An inventory is actively maintained as fertilizers are added or removed from storage; containers are to be dated when purchased and outdated materials are removed on a regular basis.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K27 Fire extinguisher

A fire extinguisher is located within the storage area.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K28 Fire prevention

The local fire department is updated yearly on the current inventory of commercial fertilizer.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K29 Nutrient management training

A farm staff member has participated in formal nutrient management training facilitated by OMAFRA.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____



K30 Review maps

The appropriate personnel working in and around the facility used to store fertilizer has and has reviewed maps indicating the location of the vulnerable area (provided).

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K31 Contingency planning

A written spill response plan is maintained on the farm to handle fertilizer spills within the area where the Risk Management Plan applies.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K32 Contingency plan training

Farm personnel are trained on the spills response plan and it is reviewed with them annually.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

K33 Record keeping

Records of all risk management measures are maintained on an ongoing basis, and provided for audit when requested. Sample sheet provided.

Type of Measure: Contingency
 Current Practice: Yes No N/A
 Will be Implemented: Yes No N/A Implementation Date: _____

Please use Schedule L, *Other Risk Management Measures*, if you wish to outline alternate measures not listed on this form.