



Representing the Plant Science Industry

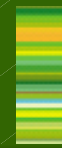
Transport and Storage of
Experimental, Genetically
Engineered Plants

CropLife International Compliance
Management Programme for Confined
Field Trials



Transportation

- Permits
- Packaging
- Labelling
- Disposal
- Records & reports





Permits

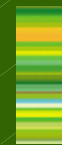
- **In country:** are there requirements to move unapproved GM plants/material within and/or between states/provinces?
- **International:**
 - Cartagena Protocol
 - SPS Agreement
 - IPPC: ISPM No. 11 Pest Risk Analysis for Quarantine Pests, Including Analysis of Environmental Risks and Living Modified Organisms (April 2004)
 - Provides detailed guidance to National Plant Protection Organizations regarding the analysis of pest risk posed by LMOs.





Packaging

- Package in secure containers capable of preventing seed or material loss.
- Keep separate from other seed and/or plant material
- Shippers must comply with any regulatory requirements that specify the types of containers that must be used
- Variances may be possible



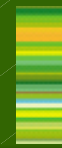


Labelling

Clearly label outside packaging

Where there is no regulatory guidance, the label may include:

1. Contains genetically engineered plant material
2. Permit Number (where applicable)
3. Permit Number for Import and/or Phytosanitary Certification (where applicable)
4. Plant species
5. Type of material
6. Any seed treatment
7. Amount of material shipped
8. Contact details for the person to contact in the event of an accidental release





Sample transport label

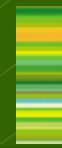
REGULATED PLANT MATERIAL TRANSPORT LABEL		
Shipment No. []	Item No. [] - []	Unique Identifier or Event Name []
Permit No. []	Plant species []	
Form of material		
<input type="checkbox"/> Seed <input type="checkbox"/> Budwood Shoots <input type="checkbox"/> Transplants <input type="checkbox"/> Tubers <input type="checkbox"/> Whole Plants		
Identify any Seed or Other Treatment of the Material []		
Emergency Contact Person []	Telephone []	





Disposal

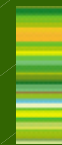
- Containers should be cleaned **or** destroyed after use by autoclaving, burning or disposal in a landfill depending on local allowances
- Residual plant material recovered during the process of cleaning should be rendered non-viable
- Regulatory authorities may prescribe acceptable means for disposing of material
- The shipper and recipient of experimental plant material should be aware of disposal requirements
 - *e.g.*, dry heat, steam heat, crushing, burning, or treatment with appropriately labelled herbicides and/or chemicals





Records and reports

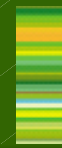
- Each major step in the CropLife International Program has an accompanying sample SOP and associated records
- **Each SOP is intended solely as an example** that may be used as an educational resource by organizations that are developing or revising their own quality management programs for confined field trials of experimental, genetically engineered plants
- The sample SOPs **should not be used as a substitute for the user's own understanding and compliance with regulations governing the conduct of such trials**





Records and reports

- Chain of custody for all records
- Defined steps to ensure tracking the movement of experimental transgenic plant material
- Shipper should notify the recipient of the
 - date, kind and amountof material that will be sent before it is shipped
- Recipient should confirm that the shipment
 - has arrived intact and that no material has been lost.
 - was received in satisfactory condition





Records and reports

Standard Operating Procedure (SOP) for the

- Transport of Experimental, Genetically Engineered Plant Material Within [Country]
 - Record of Transport
 - Record of Corrective Action





Record of Corrective Action

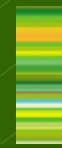
INSTRUCTIONS			RECORD OF CORRECTIVE ACTION		
<p>The Record of Corrective Action is used to document all corrective actions taken to mitigate or resolve a situation involving the accidental release of an experimental transgenic event during transport, storage, harvest or the post-harvest period or any breach of reproductive isolation during the field testing of an experimental transgenic event.</p> <p>A copy of this Record of Corrective Action, together with any other relevant records (e.g., Record of Transport, Record of Storage Inspection & Inventory, Record of Spatial Isolation, Record of Harvest, etc.) should be forwarded by facsimile to the Authorized Party.</p>					
PAGE 1 OF 2					
RECORD INITIATED BY			TRIAL SITE		
Last Name		First Name	MI	Site Location Code	Trial Site Size (m x m)
					X
Company/Organization		Department/Section		Legal or Descriptive Land Location of Trial Site	
Street Address					
City					
State/Province		Zip/Postal Code		Distance to Nearest Field of Same Species (m)	
Telephone		Facsimile		Distance to Nearest Commercial Crop of Any Kind (m)	
Electronic Mail				Is the Isolation Distance Under the Manager's Control?	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
Method of Reproductive Isolation					
<input type="checkbox"/> Spatial Isolation <input type="checkbox"/> Early Crop Destruct <input type="checkbox"/> Border Rows					
IDENTIFICATION OF COMPLIANCE ISSUE					
Check All That Apply					
<input type="checkbox"/> Unauthorized Shipment <input type="checkbox"/> Article Lost During Shipment					
<input type="checkbox"/> Primary Shipping Container Breached <input type="checkbox"/> Record of Transport Missing					
<input type="checkbox"/> Accidental Release During Transport <input type="checkbox"/> Received at Wrong Destination					
<input type="checkbox"/> Accidental Release During Storage <input type="checkbox"/> Breach of Guard Row Isolation					
<input type="checkbox"/> Breach of Spatial Isolation <input type="checkbox"/> Other, Below					
Details of Compliance Issue					
ACTIVITY REQUIRING CORRECTIVE ACTION					
Indicate the Category of Activity Requiring Corrective Action and then Complete the Relevant					
<input type="checkbox"/> Transport <input type="checkbox"/> Storage <input type="checkbox"/> Planting <input type="checkbox"/> Monitoring <input type="checkbox"/> Harvesting <input type="checkbox"/> Other					
If Other, Describe Below					
TRANSPORT AND STORAGE					
Shipment No.		Item No.			
Facility Code					
Storage Location Identifier					
Building Name or ID					
Room Number or Description					
Street Address (if different from above)					
IDENTIFICATION OF AFFECTED TRANSGENIC EVENT					
Form# No.	Plant species	Approx. Amount of Affected Material (kg)	Form of Material		
			<input type="checkbox"/> Seed <input type="checkbox"/> Budwood/Shoots <input type="checkbox"/> Transplants <input type="checkbox"/> Tubers <input type="checkbox"/> Whole Plants		
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RECORD OF CORRECTIVE ACTION			
PAGE 2 OF 2			
DESCRIPTION OF CORRECTIVE ACTION TAKEN			
Check All That Apply			
<input type="checkbox"/> Destruction of Exp. Transgenic Event <input type="checkbox"/> Other, Below		<input type="checkbox"/> Recovery of Spilled Material <input type="checkbox"/> Imposition of Spatial Isolation Zone	
<input type="checkbox"/> Impose Post Harvest Restrictions		<input type="checkbox"/> Regulating of Prohibited Plants <input type="checkbox"/> Destruction of Neighboring Crop <input type="checkbox"/> Destruction of Trial	
Details of Corrective Action Taken			
THIS SECTION IS TO BE COMPLETED BY THE AUTHORIZED PARTY			
COMMUNICATION WITH REGULATORY AUTHORITIES			
Name of Official First Contacted		Department or Office	
Telephone		Facsimile	
Date First Contacted			
Summarize communication outcomes, including agreed options for risk mitigation. Itemize all communications, recording date and individuals involved. Attach any written correspondence or transcripts of oral communications.			
VERIFICATION			
Signature of Facility Manager, Trial Manager or Authorized Party		Date Signed	
<input type="text"/>		<input type="text"/>	
The corrective actions detailed in this report have been carried out in accordance with approved standard operating procedures and with applicable regulations governing the transport, storage and field testing of experimental genetically engineered plant material.			
By my signature, above, I attest that the information contained herein is accurate and complete to the best of my knowledge and belief.			
(YYYY-MM-DD)			



Storage

- Segregation
- Security
- Labelling

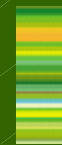




Segregation

Suitable storage area:

- Where plant material can be stored separately from other experimental or conventional plant materials
- Fully enclosed space (*e.g.*, filing cabinet, office, closet, cold room)
- When storing multiple samples of one or more transgenic events, each line, variety or event should be stored separately in a sealed, labelled container. This could be the primary container used for shipment.





Security

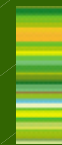
- Access doors that can be locked
- Windows closed and locked
- Limited access





Labelling

- Labelling of storage areas should conform to regulatory requirements
- Where these do not exist, it is recommended that storage areas be clearly labelled as containing experimental, genetically engineered plant materials
- Labels should be posted at the point of access





Labelling

**THIS STORAGE AREA CONTAINS EXPERIMENTAL
TRANSGENIC PLANT MATERIAL**

Facility Name or Code:

Building Name or ID:

Room Number or Description:

ACCESS TO THIS STORAGE AREA IS LIMITED TO PERSONNEL DESIGNATED
BY THE FACILITY MANAGER

Name of Facility Manager:

Room Number:

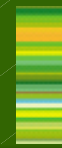
Telephone Number:

**IN CASE OF EMERGENCY OR DAMAGE TO THE STORAGE AREA,
CONTACT THE FACILITY MANAGER IMMEDIATELY**



Disposal

- Storage areas should be cleaned prior to, and immediately following, the period of storage
- Residual plant material recovered during cleaning should be rendered non-viable and disposed of by appropriate means
- This also applies to any material that is removed from storage for the purpose of disposal.





Records and reports

- Standard Operating Procedure (SOP) for the Storage of Experimental, Genetically Engineered Plant Material Within [Country]
 - Record of Storage Inspection & Inventory
 - Record of Corrective Action

