

Chris Furman c/o TriEst Ag Group

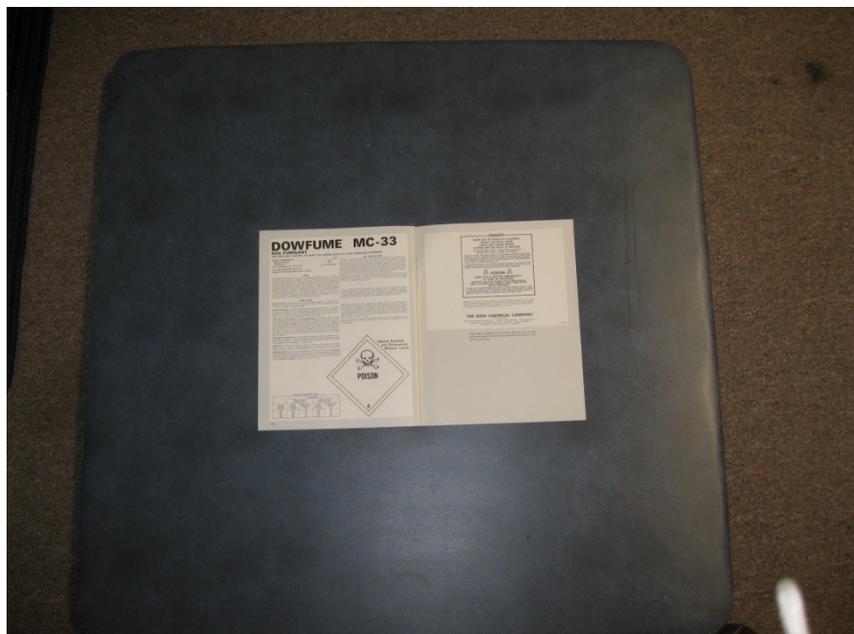


1974 To present

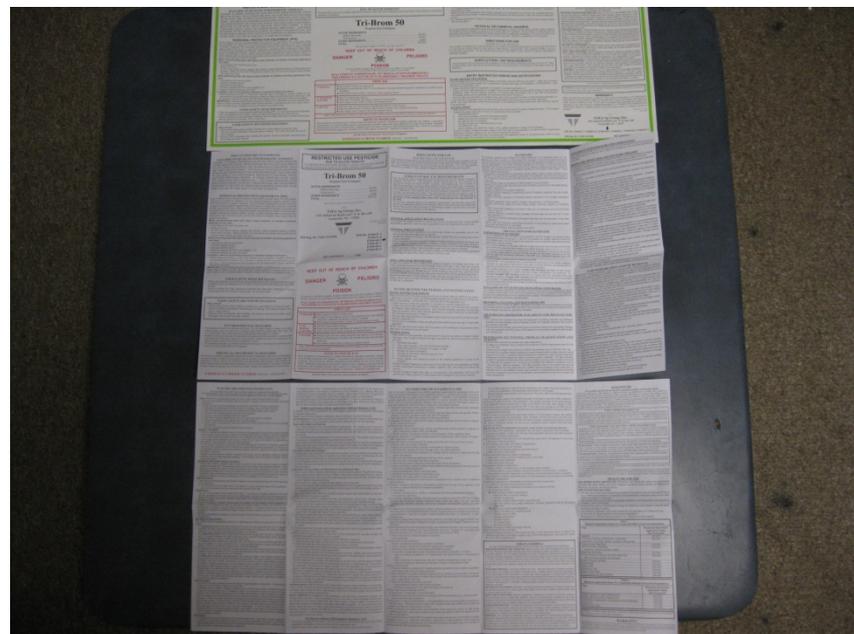


Fumigant Reregistration/Stewardship/Regulations

1974 LABEL



2011 LABEL



Label Interpretation

- PPE Requirements
- GAP's ...Good Agricultural Practices
- Tarp Removal Guidelines
- Fumigant Management Plans (FMP's)

PPE Guidelines

SCBA



FULL FACE RESPIRATOR



MEDICALLY QUALIFIES TO WEAR BREATHING
APPARATUS

PROPERLY FIT TESTED AND TRAINED TO USE

Respirator/SCBA Guidelines

PPE REQUIREMENTS

PPE GUIDELINES		
CHEMICAL	CLOTHING & FACE/EYE PROTECTION	RESPIRATOR
Methyl Bromide	Loose-fitting or well ventilated long-sleeved shirt and long pants or equivalent (e.g., coveralls); shoes and socks; full-face shield or safety glasses with brow and temple shields. DO NOT wear jewelry, goggles, or gloves.	None required when air concentrations of MeBr is less than 10 ppm. If SCBA is required (Must be on site at all times).
Chloropicrin	Same as for MeBr	None required when air concentration of Pic is less than 0.1 ppm. If concentration is between 0.1 and 2.0 ppm, a full-face respirator with vapor (OV) cartridges is required. When above 2.0 ppm, Respiratory protection must be on site at all times.
37% Formaldehyde Solution	Loose-fitting or well ventilated long-sleeved shirt and long pants or equivalent (e.g., coveralls); shoes and socks. Do NOT wear jewelry when handling. Full-face shield, goggles or safety glasses with brow and side shields must be worn if full-face respiratory protection not required. Butyl, Nitrile, or Viton Gloves must be worn.	A full-face respirator with formaldehyde cartridges and SCBA for concentrations up to 7.5 ppm. For unknown or above 7.5 ppm, pressure SCBA must be worn.

CHEMICAL	CLOTHING & FACE/EYE PROTECTION		
	Direct-Contact Task	Enclosed Cabs	
Metam Sodium	Coveralls over long-sleeved shirt and long pants; waterproof gloves; chemical-resistant footwear plus socks; chemical-resistant apron (when cleaning equipment, or when transferring without dry-disconnect fittings; face-sealing goggles unless full-face respirator is worn.	Coveralls; shoes and socks. Plus, if pungent, rotten-egg odor can be detected, must wear: Face-sealing goggles, unless full-face respirator is worn. *PPE for DC tasks must be available in cab and worn if leaving cab to conduct any DC task.	Full-face cartridge

CHEMICAL	CLOTHING & FACE/EYE PROTECTION		
	Liquid Contact Potential (LCP)		
1,3-Dichloropropene (Telone II, Curfew)	Coveralls over short-sleeved shirt and short pants; chemical-resistant gloves, footwear plus socks, and apron. Chemical-resistant headgear for overhead exposure. A face shield or safety glasses with brow and temple shields (DO NOT wear goggles); respirator		Half-face (concentration > 10 ppm)
	No LCP - Broadcast Application (in-bed)	No LCP - Pre-bed, Row Product Application (Yetter rig)	
	Loose-fitting or well ventilated long-sleeved shirt and long pants or equivalent (e.g., coveralls); shoes and socks; full-face shield or safety glasses	Loose-fitting or well ventilated long-sleeved shirt and long pants or equivalent (e.g., coveralls); shoes and socks; full-face shield or safety glasses	Half-face (concentration > 10 ppm)

Handler Descriptions/Duties

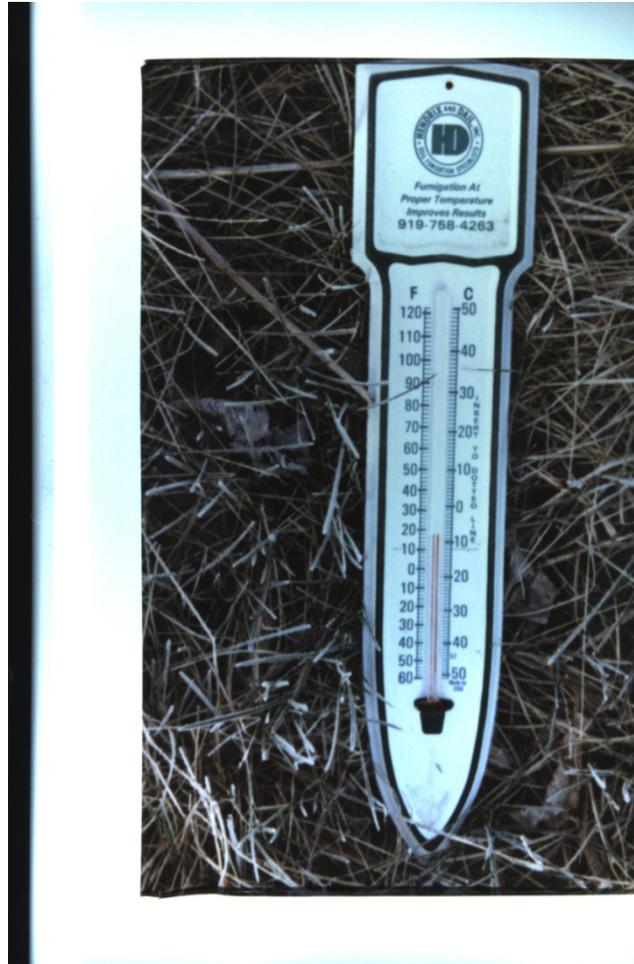
- **Tractor Driver/ Co-Pilot**
- **Connecting Fumigant Lines/ Tanks**
- **Spill Response**
- **Tarp Removal prior to 120 hours**
- **Shovelers**
- **Monitoring of Field Treatment Sites**

JOB DESCRIPTIONS HANDLER INFO / RECORDSKEEPING

Handler Information				
Handler Name, Address, and Phone Number	Employer Name, Address, and Phone Number	Tasks Handlers are Trained and Authorized to Perform* (check number(s) from below)	PPE (check all that apply)	Respirator Information (leave blank if "no respirator" is checked under PPE)
Chris Furman 218 Mallard Dr Frankfort, KY 40601	TriEst Ag Group, Inc. P.O. Box 965 Tifton, GA 31793 229-382-7272	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input checked="" type="checkbox"/> 9 <input type="checkbox"/> 10	<input checked="" type="checkbox"/> Long-sleeved shirt/long-pants, shoes, socks <input type="checkbox"/> Chemical-resistant apron <input type="checkbox"/> Chemical-resistant footwear and socks <input checked="" type="checkbox"/> Protective eyewear (NOT goggles) <input type="checkbox"/> Chemical-resistant gloves <input type="checkbox"/> Half-mask air-purifying respirator <input type="checkbox"/> Full-face air-purifying respirator <input type="checkbox"/> Self contained breathing apparatus <input type="checkbox"/> Other: <input type="checkbox"/> No respirator PPE training date: 12/05/2007	Make: Drager Model: 5500 Type: APR Style: Full-Face Size: One Size Cartridge type: Drager Xplore Organic Vapor Cartridge Fit test date: 02/24/2011 Training date: 02/24/2011 Medical date: 01/04 Make: Drager Model: 3500 Type: APR Style: Half Face Size: Large Cartridge type: Drager Xplore Organic Vapor Cartridge Fit test date: 02/24/2011 Training date: 02/24/2011 Medical date: 01/04 Make: SCBA Model: MSA, ISI, 3M Type: POSITIVE PRESSURE Style: Size: NA Cartridge type: Fit test date: 02/24/2011 Training date: 02/24/2011 Medical date: 01/04
<input checked="" type="checkbox"/> The above handler has received Fumigant Safe Handling information within the past 12 months.				
*1. Loaders, drivers, tractor co-pilots, shovelers, cross-ditchers, or other direct application participants 2. Cleaning up fumigant spills (does not include emergency personnel not associated with the application) 3. Tasks with liquid contact potential 4. Installing, perforating, removing, repairing, or monitoring tarps until: -14 days after the application is complete if tarps are not perforated and removed during those 14 days, -tarp removal is complete if tarps are both perforated and removed less than 14 days after the application, or -48 hours after tarp perforation is complete if tarps will not be removed within 14 days after application. 5. Taking air samples (breathing zone) 6. Handling or disposing of fumigant containers 7. Cleaning, handling, adjusting, or repairing equipment that may contain fumigant residues 8. Installing, repairing, operating, or removing irrigation equipment in the application block 9. Performing scouting, crop advising, or monitoring tasks in the application block 10. Performing other WPS handling tasks				
Comments/notes:				

GOOD AGRICULTURAL PRACTICES.....GAP's

SOIL TEMPERATURE



Soil Moisture



Organic Matter Issues



Soil Preparation



Depth of Application



Working Safely With Fumigants



Tarp Removal Guidelines

- - *120 Hour Rule / 14 day Rule*
- - *Instructions on Perforating and Removal*
- - *Compromised Tarps*
- - *Notations in Post Fumigant Summary*

Grower Sign Offs Training

Miscellaneous Safety Tips

- When connecting fumigant or pressure lines do not over tighten connecting fittings as they may crack and leak.
- Never leave lines charged with product when being stored for long periods of time (overnight, work breaks). Purge lines and close valves if equipment is to be left unattended.
- Always replace safety caps and bonnets on cylinder valves to protect against accidental release.
- Never store fumigants in unventilated area (i.e., equipment barn).
- Once tarp ends are buried do not disturb as product may be inadvertently released.
- To avoid inadvertent line breakage, keep lines secured away from tractor wheels, wheel wells, and any other moving equipment.
- Always post the application site with legible signs that can be read from a safe distance.



GROWERS SIGN OFF:

DATE: _____



Custom Fumigation Services
and Direct Sales

**How to Safely Work With
Soil Fumigants**

Calibration of Machinery



Stewardship Moving Forward

SOIL FUMIGATION REGULATIONS 2013

PHASE 2 REQUIREMENTS FOR SOIL FUMIGANT PESTICIDES

Safety measures for soil fumigant pesticides have been in place by the Environmental Protection Agency (EPA) to protect agricultural workers and bystanders when fields are treated. The safety measures are taking place in two phases. The label changes in both phases pertain only to soil fumigant products that contain any of the following active ingredients: chloropicrin, dazomet, methyl bromide, metam sodium and metam potassium.

IMPLEMENTATION OF PHASE 1 AND PHASE 2:

Phase 1 requirements went into effect in 2011 with labels carrying some of the new requirements, such as restricted use, in the channels of trade. Examples of Phase 1 requirements included restricted use classification, Fumigant Management Plans (FMP's), mandatory good agricultural practices, and worker protection measures.

Phase 2 requirements will occur in 2013, almost entirely for the same active ingredients as Phase 1.

Other Supportive Literature



Registrant Stewardship

- - *Labels / Labeling Pamphlets*
- - *MSDS Sheets*
- - *PPE Guidelines*
- - *FMP Guidance*
- - *Fumigant Calibration & Guidance*

Challenges Moving Forward



2012 and Beyond

- *- Buffer Zone Issues on Labels after 11/2012*
- *- Re- registrations of all fumigants again forthcoming 2014-15*
- *- All states leaning towards a Separate Category for Soil Fumigation Standards*
- *- Individuals will have to Complete a "Soil Fumigation Training Program that is Sponsored by Federal EPA*

SUMMARY

- ???? QUESTIONS FROM AUDIENCE ????