



Science For A Better Life

easyFlow M

Closed Transfer System

25/05/2017 : York : Alice Johnston

easyFlow

Agenda

- Closed Transfer Systems
- Why we need CTS
 - Operator Care
 - Regulatory Changes
- easyFlow
 - Agrotop
 - How it works
 - Rollout and Feedback

Closed Transfer Systems



What do we mean by Closed Transfer?

Aim of closed transfer systems:

- **Get a product from a can into a sprayer without exposure to the operator or environment**
- Stop concentrated chemical from being released due to spills or splashes
- Used across all industry standard packaging
- Improve handling during filling

Why we need CTSs

Technology Progression in Practice:

- Continued advancement in operator care
- We've come along way since the first products were on the market
- Induction hoppers reduce risk from top filling of sprayer
- Wide adoption of personal protective equipment
- Comprehensive training and equipment inspection, **NRoSO** and **NSTS**



Why we need CTSs

Regulator updates: **EU Regulation 1107/2007**

- Increase in regulatory demand to register products partly due to the introduction of hazard criteria
- This looks at the inherent risk of the active substance
- Old and New products going through registration may have extra requirements
- Products are already starting to come out with new buffer zone restrictions



Why we need CTSs

Regulator updates: **EU Regulation 1107/2007**

Built into this regulation are options to amend the method of use of products

- Such as, new buffer zone restrictions or use for closed transfer systems
- Buffer Zone – hazardous to aquatic life
- **Low Drift Technology**
- Closed Transfer Systems – operator exposure
- **PPE and Induction Hoppers...CTSs?**



Why we need CTSs

Regulator updates: **EU Regulation 1107/2007**

- Demonstrating negligible exposure
- Wide adoption and transferable across the industry
- Next step forward in operator safety



Agrotop - German sprayer technology company
Billericay Farm Services - UK Distribution

- Designed to be as practical as possible
- Developed to protect operators and the environment from exposure of chemicals during filling

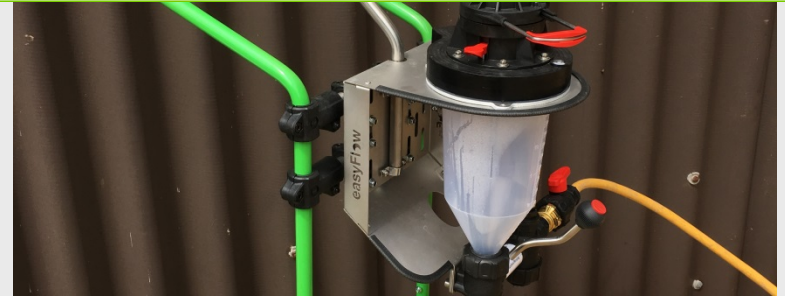


- easyFlow can measure exact quantities, down to 60ml, or empty entire cans.
- An inbuilt washing system gives quick and efficient rinsing of cans, adaptors and measuring cylinder, even after partial emptying of cans.
- The adaptors fit all 5-15L cans with the industry standard 63mm opening.
- Mounted next to the sprayer tank it connects into the suction line, getting products into the tank safely and efficiently.





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How it works

1. Adaptors screw onto the can lid, staying attached until the can is emptied and cleaned
2. The foil breaks automatically as the adaptor connects into the unit, keeping the foil attached to the lid
3. Leaver allows for gradual measuring into the cylinder or complete emptying straight into the tank.
4. The inbuilt rinsing system allows the cylinder and adaptor to be rinsed after partial emptying and the can and foil once emptied.



Roll Out

1. Europe
2. Bayer supported roll out in the UK
3. National commercial distribution through BFS
4. Feedback, Feedback, Feedback
5. Widespread Adoption

On Farm Trials



2017 – 2018 in UK

- easyFlow M MKII Summer '17
- 80 FOC units
- Feedback
- Fitting
- Sprayer Manufactures
- Demonstrations across the UK



Progression in Practice

- Keeping tool boxes full!
- Re-evaluating priorities to keep farming?
- The future of best farming practice?
- Testing, trialling and uptake...



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Thank you!

www.bayer.cropscience.co.uk/easyFlow

May 2017 : Alice Johnston