



Narrow roads
Larger equipment
Expanded trade area
More vehicles/speeds



Inattentive drivers
Confused drivers
It's all about me

**You can't control stupid, but
you might control the outcome**







Plan your jobs in the morning. Planning ahead keeps you out of these predicament.







INDIANA
677FCJ







WARNING

DOOR MAY DROP SUDDENLY WITHOUT WARNING.
ALWAYS STOP TO HOLD THE DOOR IN THE RAISED POSITION
WHEN EXITING OR ENTERING.
FALLING FROM HIGH DOORS
CAN CAUSE SERIOUS INJURY OR DEATH.





Take extra care at intersections because there is no walking away from these accidents





I've waited long enough. Here we go!



CHEVROLET

GO INDIANA
GO INDIANA
GO INDIANA

















Pulling over is part of being a responsible driver





Anticipate what traffic will do



Left turns by sprayers are one of the most serious highway risk faced by the applicator.









Roberts →



35

miles/h

A

24









ONE LANE
BRIDGE



WEIGHT
LIMIT
15
TONS

STOP

ONE
WAY

NARROW
BRIDGE

WEIGHT
LIMIT
5
TONS



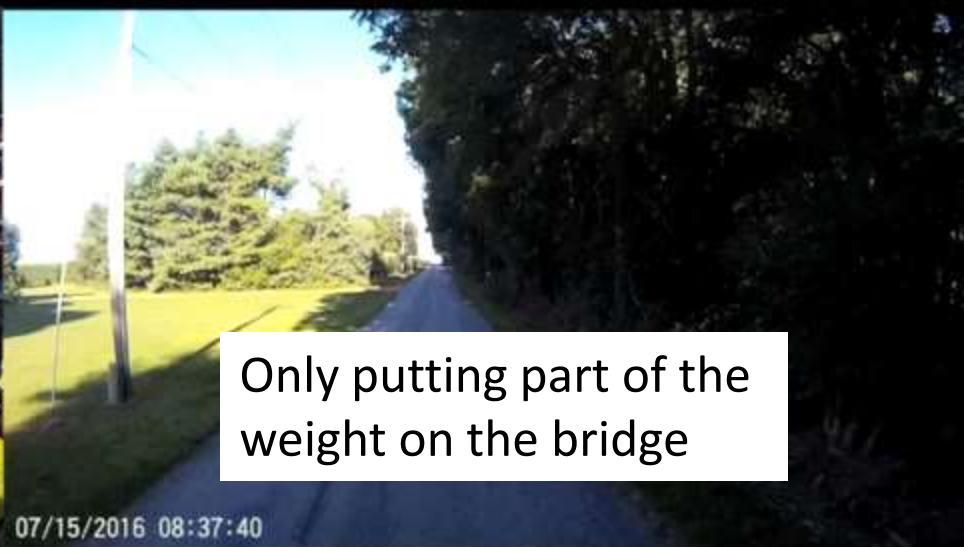


Illustrating putting the whole sprayer on the bridge

07/15/2016 11:03:10



07/15/2016 08:37:43



07/15/2016 08:37:40

Only putting part of the
weight on the bridge





WEIGHT
LIMIT
3
TONS















REPORT PROBLEM
OR EMERGENCY
815-486-7260
CROSSING
474 836 D



NEWS CHANNEL 19

Don't try to beat the train to the crossing



Trailing Vehicles: Good or Bad Idea





TK171MRP

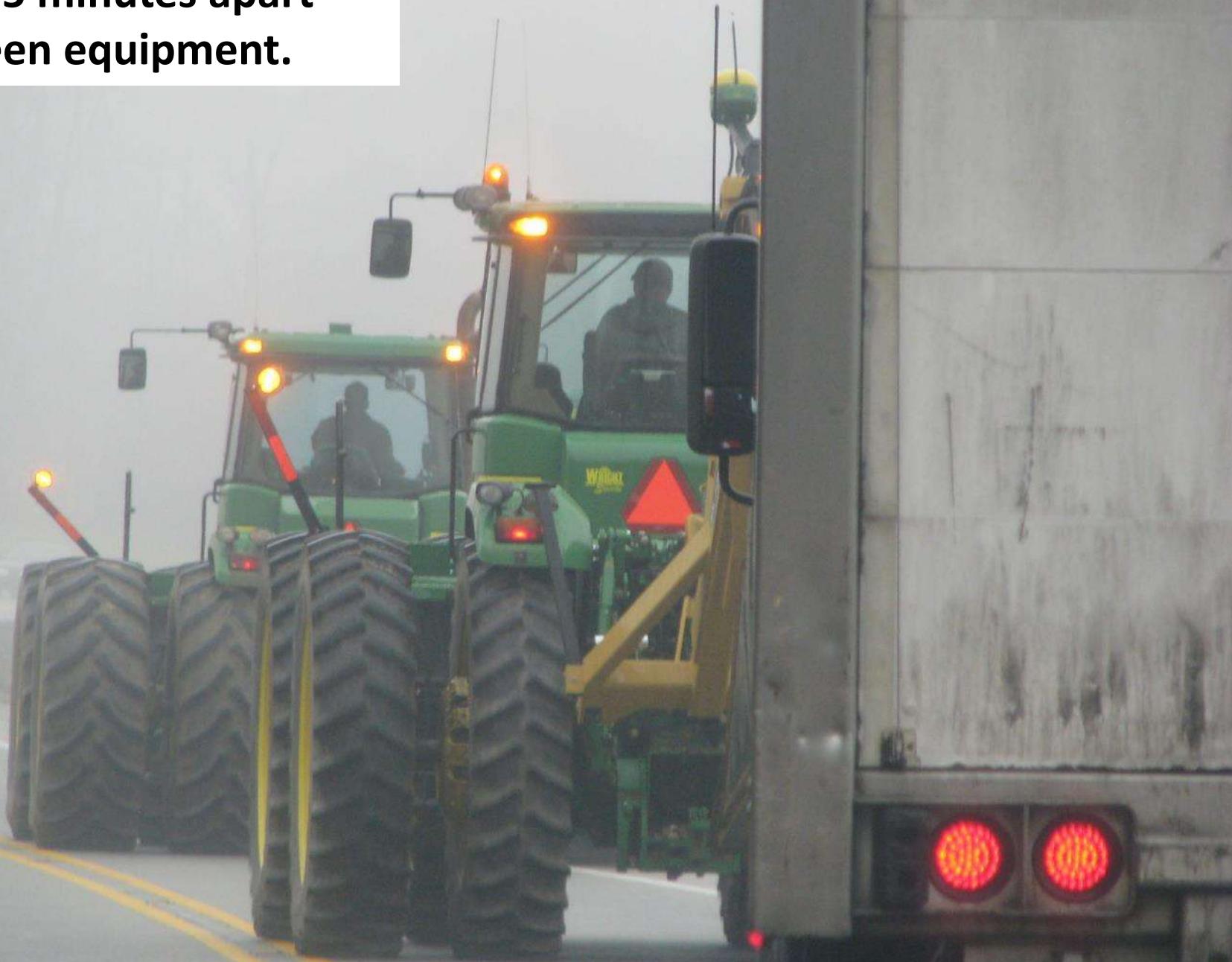




TK171MRP



**Leave 5 minutes apart
between equipment.**



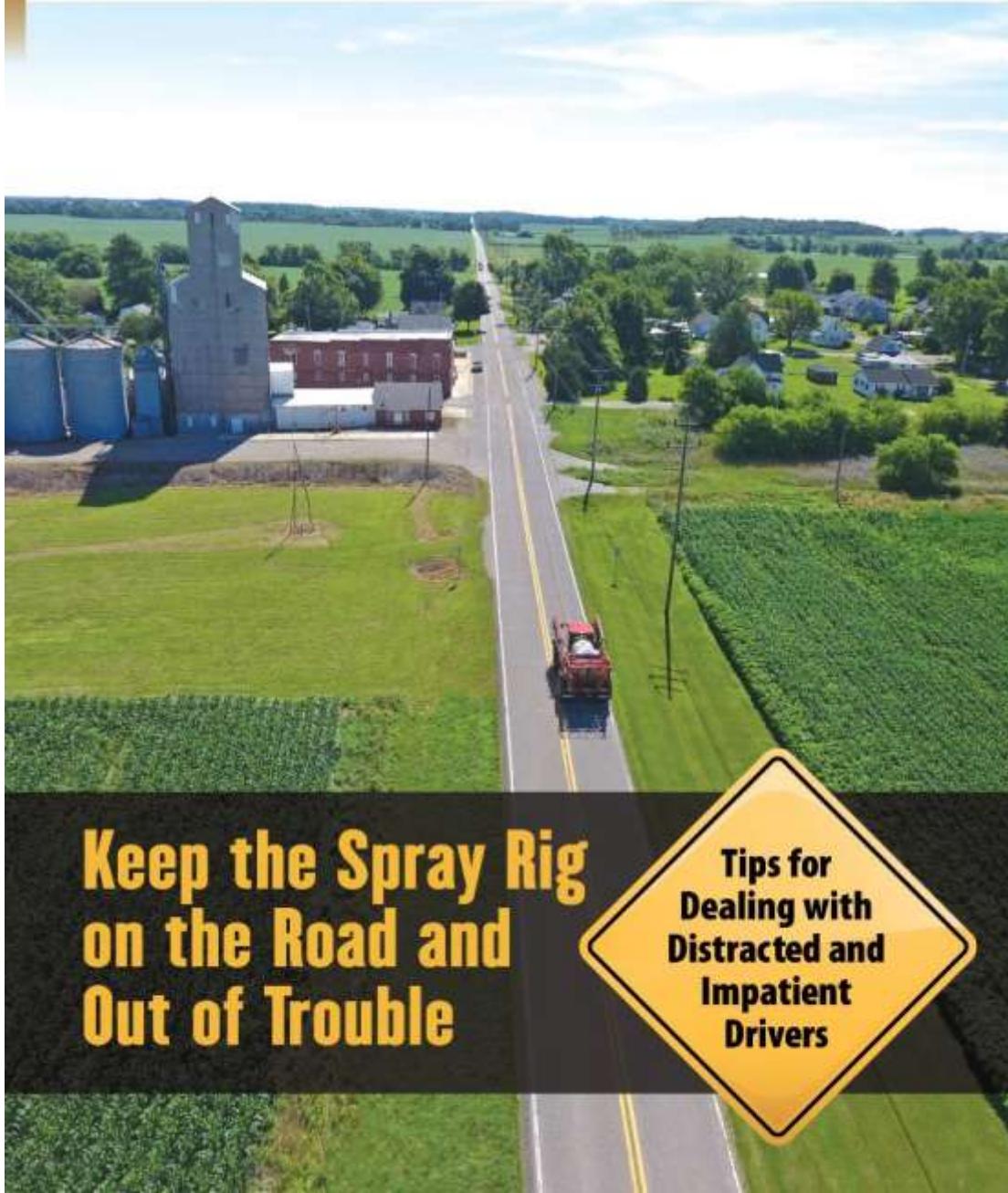






Conclusion

**Be better than the
person you are sharing
the road with.**



**Keep the Spray Rig
on the Road and
Out of Trouble**

**Tips for
Dealing with
Distracted and
Impatient
Drivers**

Sources of Herbicide Contamination

Possible culprits are

Spray Tank

- surface walls
- recessed drains

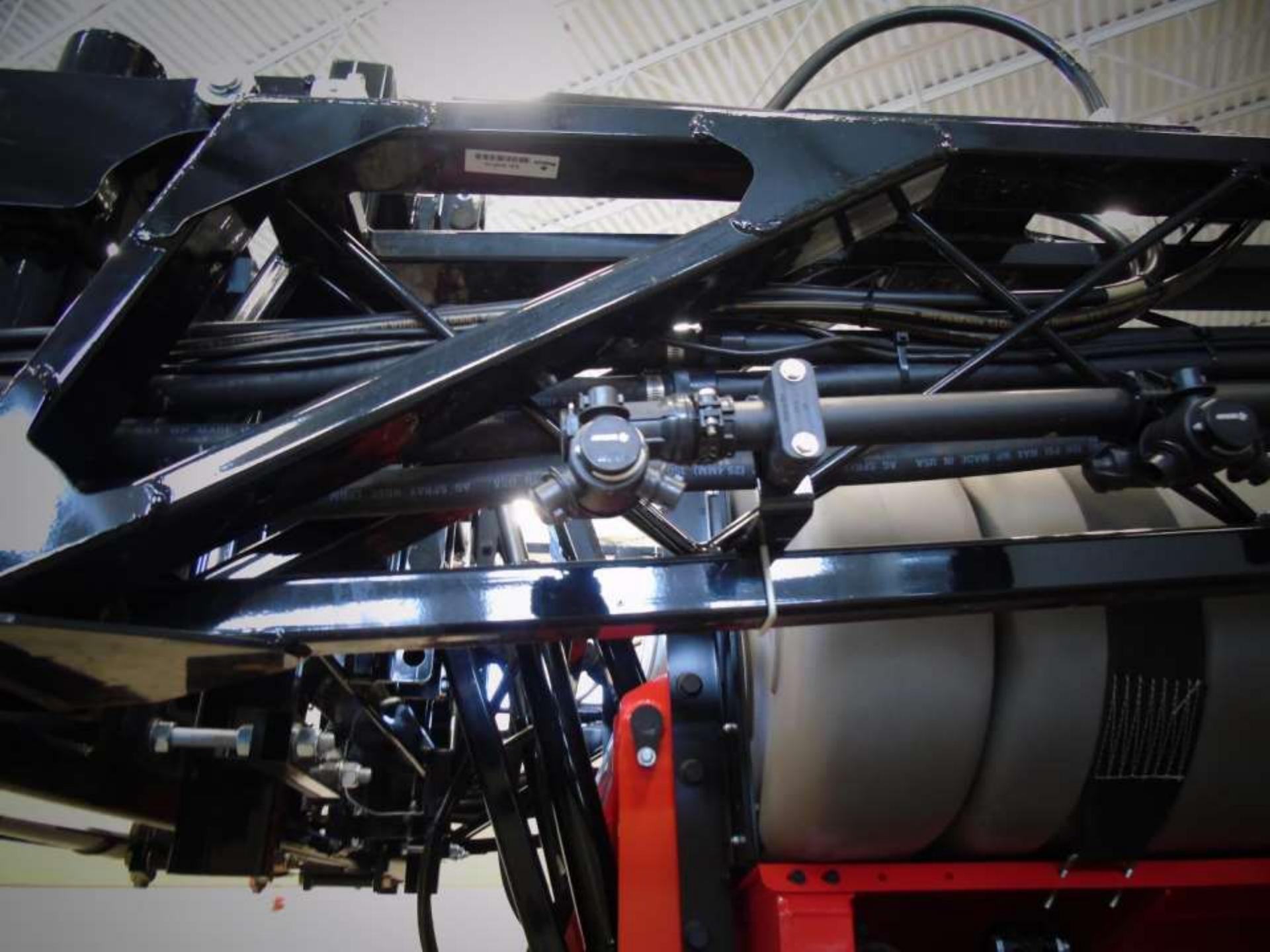


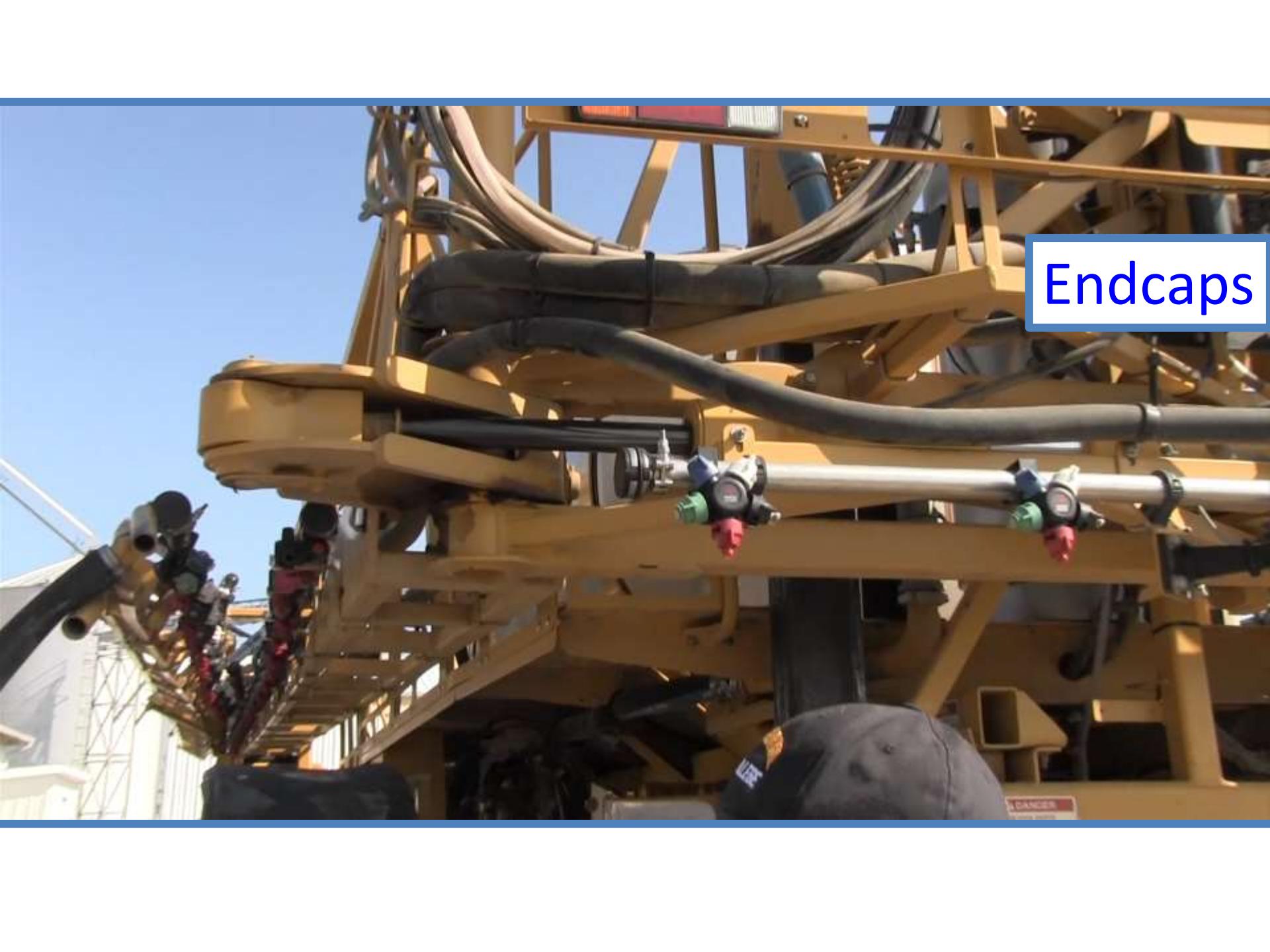












Endcaps

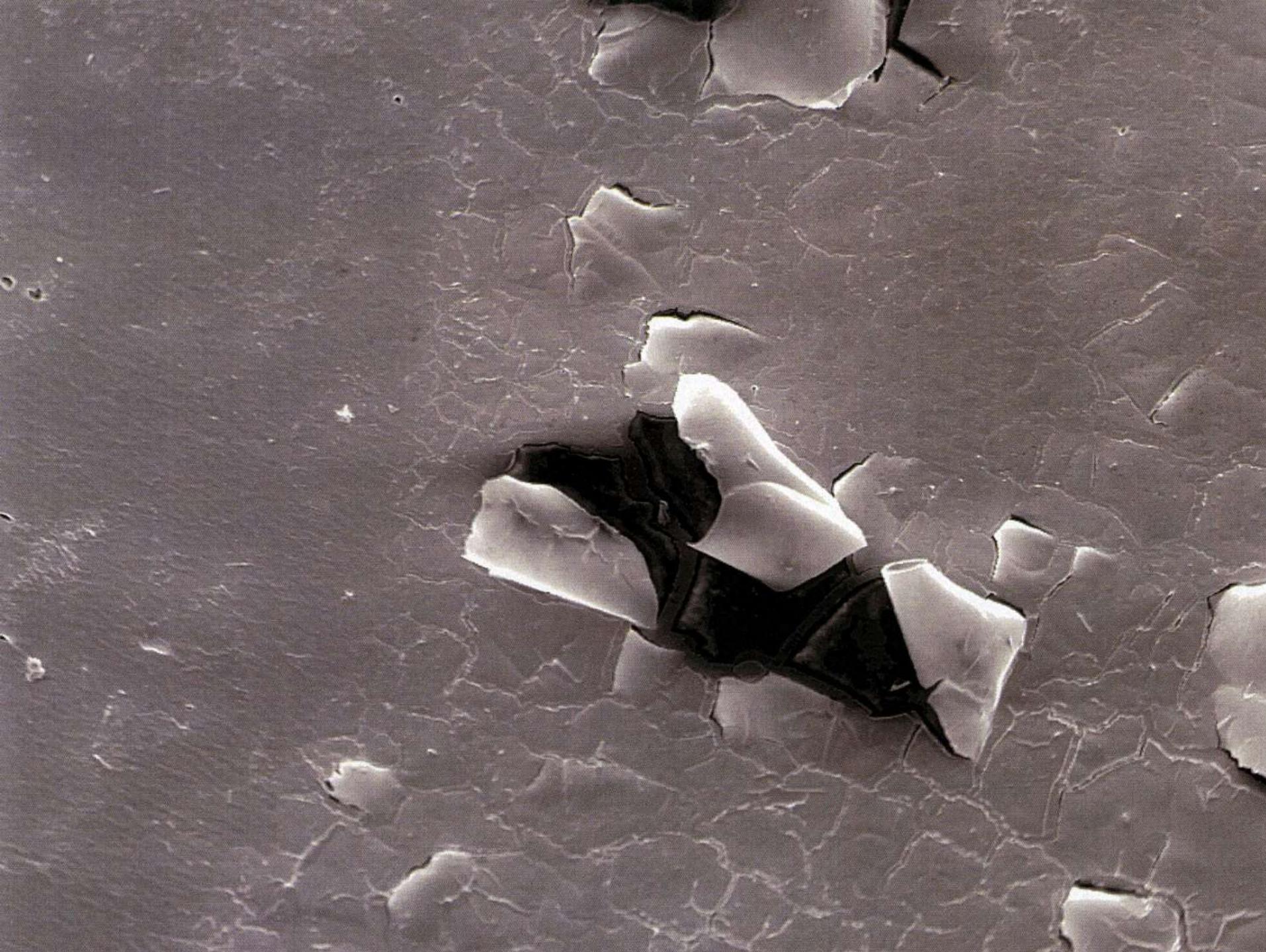




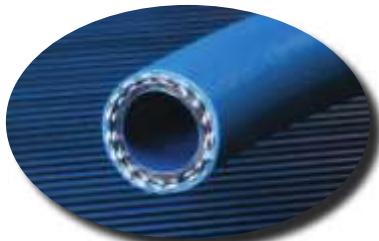












Kuri Tec®

Series A4086

High Pressure Polyethylene Rubber Blend Reinforced Chemical Spray & Transfer Hose

A premium chemical spray and transfer hose for applications requiring greater chemical-resistance . . . excellent for high pressure tree and orchard spraying, as well as paint, solvent and chemical transfer.

Construction:

- Tube — Co-extruded blue LLDPE/rubber blend.
- Reinforcement — High tensile strength yarn . . . two-pass spiral construction.
- Cover — Blue rubber blend compound.

Features:

- Excellent chemical-resistance.
- Extremely light weight.
- Excellent low temperature properties.
- Pin-pricked cover vents vapor . . . helps prevent ballooning.

• Silicone-free.

• RoHS⁽¹⁵⁾ compliant.

Applications:

- For use in applications where additional chemical resistance is required . . . see chemical resistance chart, referring to both core and cover materials, on Page 66.
- High pressure tree, orchard and vineyard spraying.
- Concrete curing and spraying.
- Paint and solvent transfer.
- Chemical transfer.



Service Temperature Range: -40°F (-40°C) to +130°F (+54°C)

Nominal Specifications

Series No.	Size Code	Nominal ID		Nominal OD		Max. Working Pressure† (PSI) @ 70°F (20°C) @ 122°F (50°C)	Standard Length Coils	Approx. Wt. per Pkg.
		(in)	(mm)	(in)	(mm)			
A4086	06	3/8	9.5	.688	17.5	800	300	33/11 lbs.
A4086	08	1/2	12.7	.840	21.3	800	300	300/100 ft.
A4086	12	3/4	19.1	1.140	29.0	800	250	45/15 lbs.
A4086	16	1	25.4	1.400	35.6	400	125	72/24 lbs.
							200/100 ft.	65/33 lbs.

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: Use of hydraulic or reusable-type fittings are not recommended for coupling Kuri Tec® hose products. Hose claims involving use of these fittings will be disallowed.

NOTE: For details of the following compliances mentioned above, refer to footnotes listed on page 63.

RoHS⁽¹⁵⁾

Please refer to the back page for the location of your nearest warehouse for availability of products/sizes shown.

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS OR DISCONTINUE PRODUCTS WITHOUT PRIOR NOTICE.

Nylon Braided Hose Discharge Only, Not Suction

Cost

1/2" - \$1.98/ft

3/4" - \$4.78

1" - \$6.23

3 Times the cost of black EPDM
Hose



TITANFLEX® UHMWPE Chemical Hose FDA, USDA, 3-A Series SWC693

Series SWC693 is an extremely flexible, high pressure, high temperature suction and discharge hose designed to handle approximately 98% of commonly used acids, chemicals and solvents as well as food, pharmaceutical and sanitary materials. The hose is manufactured using polished stainless steel mandrels for an ultra-smooth tube that will not impart taste or odor. The ultra high molecular weight polyethylene (UHMWPE) tube meets FDA, USDA and 3-A requirements and will not leach into and contaminate the product being conveyed. The lightweight corrugated hose construction incorporates a dual wire helix that provides full suction capability, superior kink resistance, minimal force-to bend and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, mild chemicals and ozone.

NOTE: Refer to the Safety and Technical section of this catalog for safety, handling and use information. Refer to the Chemical Guide section of this catalog to determine compatibility with specific chemicals. Contact Parker for additional chemical compatibility information.

Tube:	Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement:	Multiple textile plies with dual wire helix
Cover:	Green EPDM; corrugated wrapped finish
Temp. Range:	-40°F to +250°F (-40°C to +121°C)
Brand Method:	Black text on yellow stripe
Brand Example:	PARKER SERIES SWC693 TITANFLEX® UHMWPE CHEMICAL SUCTION HOSE XXX PSI MADE IN USA
Design Factor:	4:1
Industry Standards:	FDA, USDA, 3-A
Applications:	<ul style="list-style-type: none"> • Non-fatty and non-oily foods and liquids, potable water, sanitary products • Acids, chemicals, solvents • In-plant and tank transfer, delivery, transport
Vacuum:	Full
Packaging:	Coils

(Continued on the following page)

⚠️ WARNINGS!

- It is the responsibility of the user to determine if the hose is suitable for the application. Most chemical resistance guides are based on temperatures of 70°F (21°C). Elevated temperatures can change the chemical resistance ratings. Many chemicals will become more aggressive as temperatures increase, reducing the ability of hose compounds to withstand them. Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, users are required to perform compatibility testing at the desired temperature.
- At operating temperatures of 125°F and above, only permanently attached couplings should be installed. At any operating temperature, couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. [Refer to the NAHAD Industrial Hose Assembly Guidelines](#).
- Do not use with internally expanded couplings. Refer to chemical hoses that incorporate a MXLPE tube.

Wire braid Suction and Discharge

1" - \$7.78/ft

1 1/4" - \$9.85

1 1/2" - \$9.93

2" - \$11.73

3" - \$17.89



Do you have written procedures for tank cleanouts that applicators sign off on?

Proposed Cleanout

Empty boom every night

First Rinse Sprayed in field

Remove, clean and replace screens

Remove and clean end caps

Second rinse with water and replace end caps

Add and hold tank cleaner

Third rinse and flush

Fourth rinse (?)

Rinse outside of sprayer



You might think after a pump has lost its prime that hardly any product remains in the system. But a 120' boom may hold 35 gallons and a 90' boom may hold 25 gallons. Depending on the rate applied, that's between one to three acres of product left in the boom and hoses. That's a lot of damage waiting to happen!















Wear Gloves



A black and white photograph of a coastal scene. In the foreground, there's a rocky, pebbled beach. The water is shallow and reflects the overcast sky above. In the background, a dark, flat-topped mountain or large hill rises across the horizon.

Passing the eye test



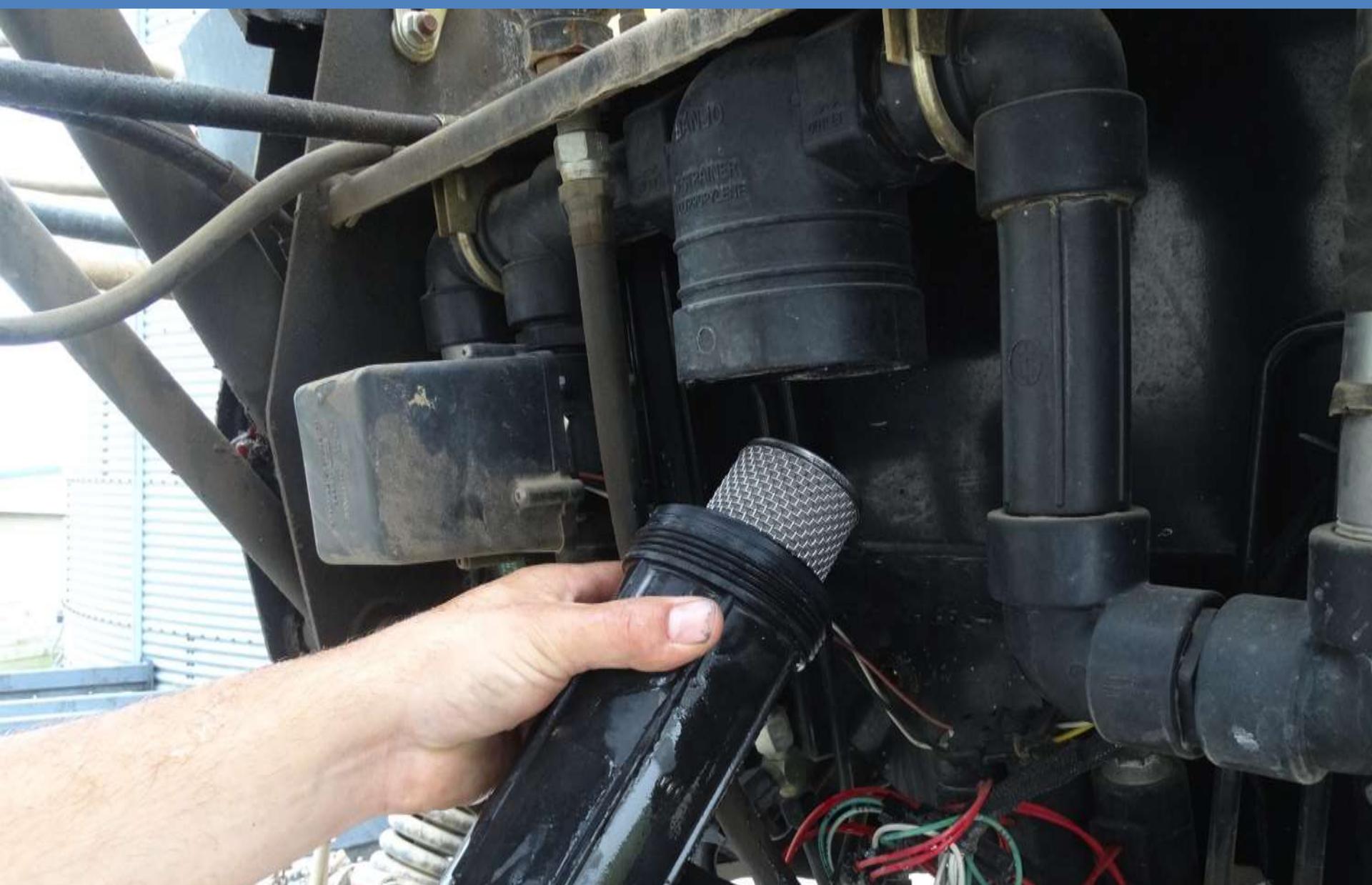


First rinse
done

Before Second Rinse-Screens and End Caps



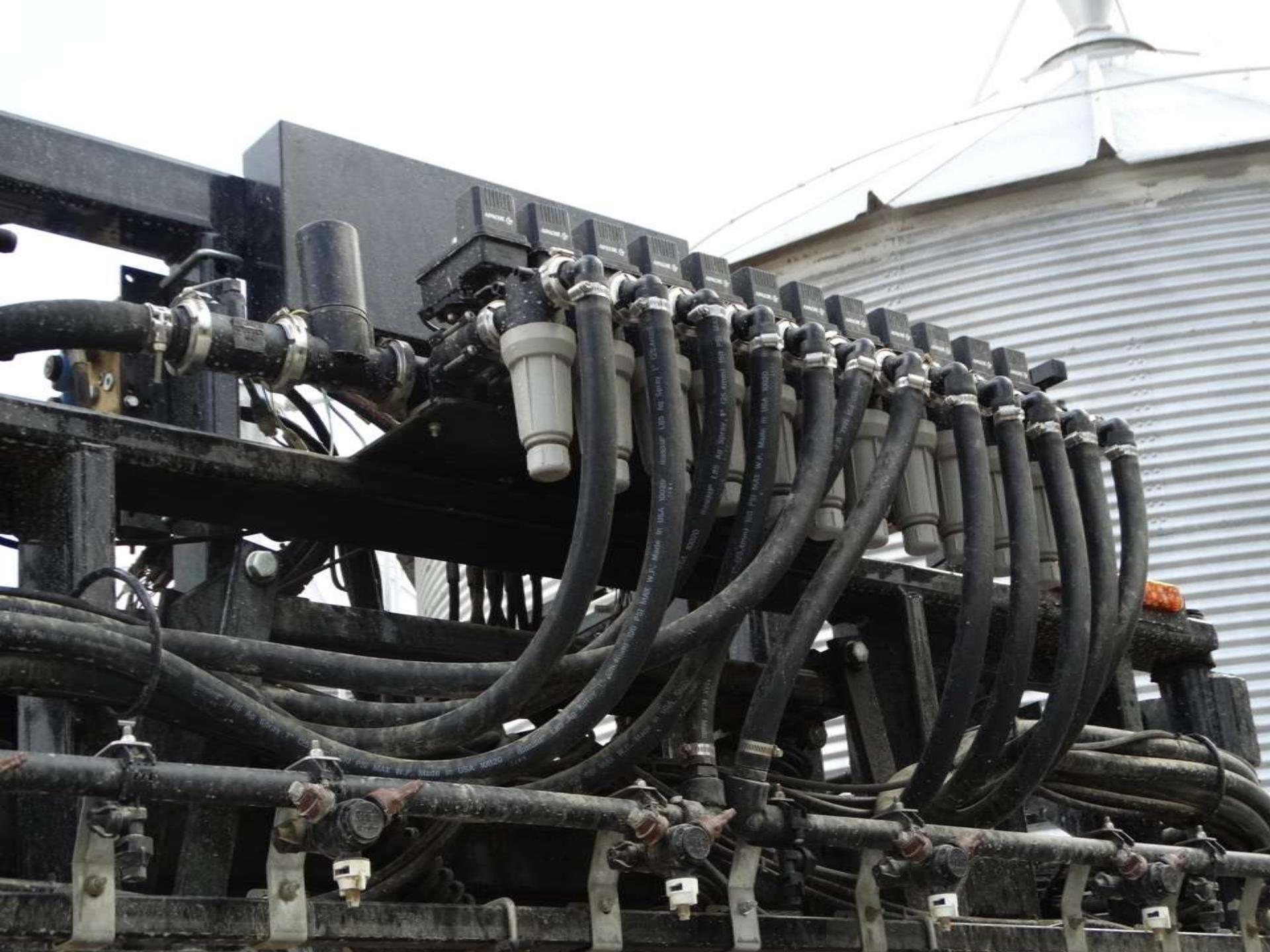
Remove, Clean, and Reinsert Screens





Third Mistake—Believing That Flushing The Screen Is Cleaning





CHEMICAL
STORAGE ARE



Always wear long pants and long-sleeved shirt when rinsing equipment.







Screens
replaced

Remove And Clean End Caps On Boom Sections









First rinse
done

Second Rinse-Tank, Hoses, Screens, End Caps



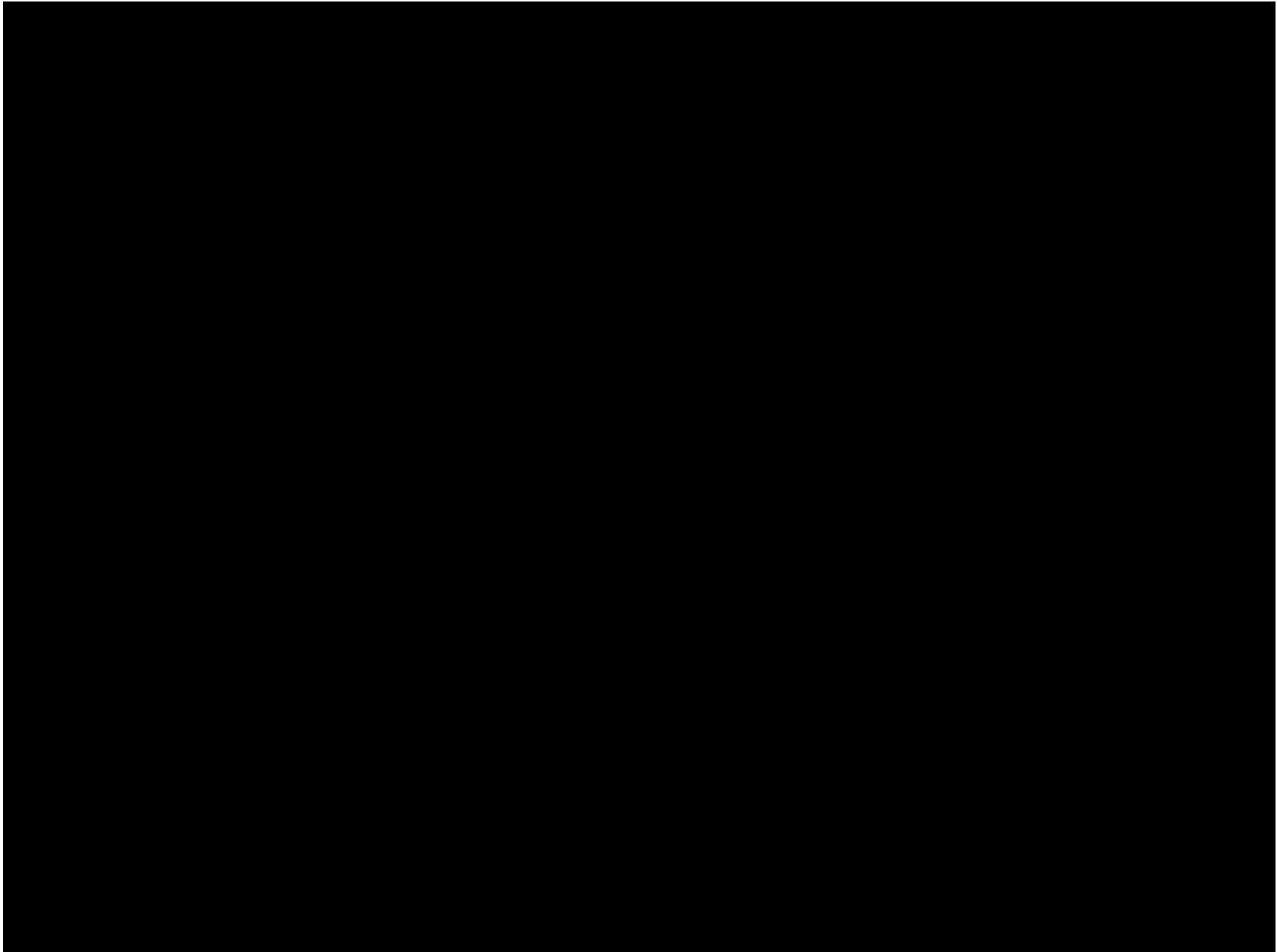
















First rinse: tank, hoses, boom

**Second rinse: tank, hoses,
screens, end caps, boom**

Add Tank Cleaner

A Major Fourth Mistake—Tank Cleaners Work Magic!



The Longer You Leave The Tank Cleaner In, The Better It Works

How Long Is Anyone's Guess

NOTE

The solution should be allowed to remain on all surfaces to be cleaned so that the solution can have time to penetrate all existing residues. This process can take as little as a few minutes, to as long as a day depending on the physical state of the deposit. Since it is impossible to know how long to wait, a person must use their best judgement. Since this is not 100% certain, you must determine whether the last rinse is "safe". You can do this by applying a test solution to the next crop and determining by visual symptoms if it is safe to be used.

INCIDE-OUT™ SPRAY TANK CLEANER

PRINCIPAL FUNCTIONING AGENTS:

Organic Amine, Inorganic Hydroxides, Surfactants and Formulation Aids ..

All ingredients are approved for use under 40 CFR 180.1001(c).

DANGER: Corrosive.
KEEP OUT OF REACH OF CHILDREN
DO NOT TAKE INTERNALLY
FOR USE BY TRAINED PERSONNEL ONLY

PRECAUTIONARY STATEMENTS

Before using this product, read the entire label, including conditions of sale.
This product contains caustic alkali which may cause severe burns if swallowed. Severity of damage or injury increases with time.

- First rinse: tank, hoses, boom
- Second rinse: tank, hoses, boom, screens, end caps
- Third rinse with tank cleaner: tank, hoses, boom, screens, end caps
- Some add a fourth rinse to clean out any remaining tank cleaner



The Power Of Three Rinses













**Can not contaminate water based on
label language with waste water**











**Follow the
procedures in the
tank cleaning
process to the letter!**

Proposed Cleanout

Empty boom every night

First Rinse Sprayed in field

**Remove, clean and replace
screens**

Remove and clean end caps

**Second rinse with water and
replace end caps**

Add and hold tank cleaner

Third rinse and flush

Rinse outside of sprayer



Removing Herbicide Residues from Agricultural Application Equipment



*How Proper Cleaning
Helps Prevent Crop
Damage and Improves
Performance*