



VER-TECH LARGE VEHICLE WASH CHEMICALS

**CLEAN  
BETTER.**

*We invest in your success.*



[www.vertechlabs.com](http://www.vertechlabs.com)



# INVESTED IN YOUR SUCCESS

Our passion is simple: to help Ver-tech customers clean better with the best chemicals. Ver-tech formulates a wide range of high performance, environmentally friendly, reclaim compatible vehicle wash products in Rockford, Minnesota. We recommend optimal combinations of products based upon individualized wash needs and support your operations with experienced chemical representatives.

Our partnership with you means innovative and effective chemistry, a world class manufacturing process and technical expertise to help your business grow. Every customer is more than “just an account.” It may be old-fashioned but we still believe in a partnership based upon a handshake rather than a contract. We work to earn your business every day.

Clean Better with Ver-tech  
Tony Vertin, CEO



Alkaline (High pH) Products	Metal Safe	Reclaim Compatible	Green	Sizes (Gallons)
<b>HEL100 HELLCAT</b>	Yes		Yes	5 / 30 / 55 / 250
<b>THU100 THUNDERBOLT</b>	Yes		Yes	5 / 15 / 30 / 55 / 250
<b>GRE100 GREEN LIGHTNING</b>	Yes		Yes	5 / 55 / 250
<b>DOU100 DOUBLE DUTY</b>	Yes		Yes	5 / 55
<b>EXT372 BUG-BE-GONE</b>	Yes		Yes	5 / 15 / 30 / 55

#### HEL100 HELLCAT

- Most concentrated, metal safe product
- Use as a one-step touchless cleaner or second step of two-step touchless cleaning
- Great choice for use in automated truckwashes
- Works in hard water conditions (soft water will still give best results)
- Premium product
- Should only be used by professionals

#### THU100 THUNDERBOLT

- Top selling high pH product for large vehicle, truck and equipment wash
- Versatile, excellent cleaner and degreaser
- Use as a one-step touchless cleaner or second step of two-step touchless cleaning
- Competitively priced
- Should only be used by professionals

#### DOU100 DOUBLE DUTY

- Light duty truck wash soap
- An excellent debugger, may actually dry on the surface
- Can be applied to hot vehicle surfaces without damaging paint or metal
- May require some brushing, not for touchless cleaning


#### GRE100 GREEN LIGHTNING

- Economical truck wash soap best used with a brush
- Dilute 1:10 or stronger for touchless cleaning

#### EXT372 BUG BE GONE

- Spray on windshield, grill, mirrors and other surfaces with insect residue prior to washing with other VTL products
- Softens and removes bugs and light soils
- Will not damage vehicle surfaces if it dries on a hot vehicle

Reclaim compatible products are optimized for use in water recycling systems.

Acid (Low pH) Products	Metal Safe	Reclaim Compatible	Green	Sizes (Gallons)
<b>EXT427 SAPPER</b>	Yes		Yes	5 / 30
<b>EXT430 VISION</b>	Yes		Yes	5 / 15 / 30 / 55
<b>EXT470 LIGHTNING</b>	No		Yes	5 / 30 / 55
<b>STR500 STRYKER</b>	No		Yes	5 / 55
<b>CIT110 CITRIC CLEAN</b> contains Sulfuric acid	Yes		Yes	5 / 55 / 250
<b>SUP110 ALUMALITE</b> contains Hydrofluoric and Sulfuric acid	No		Yes	5 / 55
<b>SUP120 ALUMALITE SUPER</b> contains Hydrofluoric and Sulfuric acid	No		Yes	5 / 55

#### EXT427 SAPPER

- Step 1 of two-step cleaning
- Soft metal and polished metal safe
- Good choice for cleaning metal tankers
- Removes light oxidation

#### EXT430 VISION

- Step 1 of two-step cleaning
- Metal safe
- Removes lignin based soils that yellow trailers
- Recommend use with Hellcat or Thunderbolt

#### EXT470 LIGHTNING

- Step 1 of two-step cleaning
- Safer alternative for HF
- Great for restoring tankers
- Other than Alomalite, our best product for removing oxidation

#### STR500 STRYKER

- Step 1 of two-step cleaning
- Excellent alternative for HF
- Low foam product for reclaim systems
- Good on glass and chrome surfaces

#### CIT110 CITRIC CLEAN

- Step 1 of two-step cleaning
- Most versatile low pH truck wash product
- Metal safe on aluminum
- Good brightener
- Heavy duty cleaner
- Recommend use with Hellcat or Thunderbolt

#### SUP110 ALUMALITE

- Step 1 of two-step cleaning
- Contains HF and Sulfuric Acid
- Use to clean up aluminum rails
- Use on older trucks without polished aluminum

#### SUP120 ALUMALITE SUPER

- Step 1 of two-step cleaning
- Contains HF and Sulfuric Acid
- Recommend use with a strong alkaline product such as Hellcat, Thunderbolt or Golden Knight
- Should only be used by professionals



# How to Clean a Semi-Trailer Truck

FOR BEST RESULTS, USE A TWO-STEP TOUCHLESS CLEANING PROCESS

## TWO-STEP TOUCHLESS CLEANING

Clean your semi-trailer from front to back and in small vertical sections (8-10 feet wide)

### STEP 1:

Apply a low pH (acid) detergent to the vehicle surface using a Foam Maxx foamer

- When applying the chemical, foam it on from the bottom of the vehicle to the top of the vehicle

### STEP 2:

Apply a high pH (alkaline) detergent directly on top of the low pH (acid) detergent, from the bottom to top of the vehicle

### STEP 3:

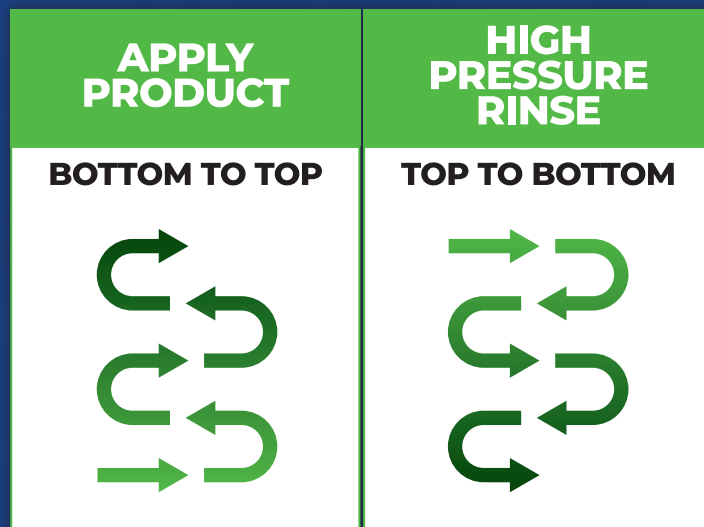
Allow for a short dwell time 30-45 seconds

- Do not allow the chemical to dry on the surface

### STEP 4:

Use warm water (90°F - 100°F) for your high pressure rinse and rinse the vehicle section from top to bottom

- Maintain your high pressure nozzle within 18 inches of the surface and a spray angle of 15° - 45°
- Repeat Steps 1-4 until your truck is clean
- The best products to use for two-step cleaning are **CIT110 Citric Clean** for the first step and **HEL100 Hellcat** or **THU100 Thunderbolt** for the second step



*Surface damage can occur if products are left on the surface beyond the recommended time frame.*

*Surface damage can occur if the vehicle's surface temperature is high – use caution if the vehicle has been in the sun prior to washing.*

## WHY USE FOAMING EQUIPMENT?

- Applies detergent solutions quickly and easily
- Applies the correct chemical concentration every time
- Increases detergent dwell time on the surface to be cleaned
- Lower manpower cleaning costs
- Lower detergent costs
- Easier to see where you have applied detergent
- Safer for employees and equipment





At Ver-tech Labs, our goal is to help our customers use the least amount of detergent to clean their trucks and heavy equipment effectively, at the lowest possible cost.

The biggest impediment to cleaning touchlessly is poor dilution control of chemical products when using injection systems on common truckwashing equipment. Ver-tech Labs Foam Maxx foamers allow our customers to clean better and faster with controlled dilution rates and proper application of detergents.

## Portable Foamers with Kalrez Pump Kit

- Draws from pre-mixed solution
- Powered by compressed air
- Hinged back plate provides tool-free access to components
- Quick-change pump
- Natural color tank for easy visibility of product levels
- Hinged lid
- In-line strainer to protect pump from debris
- Anti-kink hose protection
- **24" wand included**



	10 Gallon Portable Foamer	20 Gallon Portable Foamer	30 Gallon Portable Foamer	50 Gallon Portable Foamer
DISCHARGE HOSE	20 feet	30 feet	30 feet	50 feet
OUTPUT DISTANCE	15-20 feet	25-30 feet	25-30 feet	25-30 feet
OUTPUT VOLUME	15-30 gal/min	20-45 gal/min	20-45 gal/min	20-45 gal/min
RECOMMENDED USE	1-2 vehicles, home use	2-5 vehicles, large trucks	Tractor/Trailer/Ag. Use	5+ vehicles, large fleet use

## Foam Maxx Pre-Mix Foam Unit

- Draws from pre-mixed solution
- Powered by compressed air
- Stainless steel ball valve and wand
- Stainless steel fluid fittings
- Quick-change pump
- Suction line 8 ft.
- Discharge hose 50 ft.
- Output distance 25-30 ft.
- Output volume 20-45 gal/min



## Foam Maxx Concentrate Foam Unit

- Draws from concentrated product
- Dilutes at ratios of 14:1 to 320:1
- Powered by compressed air
- Stainless steel ball valve and wand
- Stainless steel fluid fittings
- Quick-change pump
- Suction line 8 ft.
- Discharge hose 50 ft.
- Output distance 25-30 ft.
- Output volume 20-45 gal/min





# SALT SHIELD® PROTECTION

## How does vehicle corrosion occur?

Vehicles driven on roads treated with deicers and dust suppressants, as well as coastal areas are all exposed to salts. These salts attract moisture from the air and are then dissolved. The dissolved salts increase water conductivity, making an electrolyte solution. Much in the same way an electrolyte in a battery facilitates the movement of electrons from one electrode to another, immersing any metal in an electrolyte solution speeds up the movement of electrons and the process of corrosion.

Using Salt Shield® will ensure that salts are thoroughly washed off surfaces. Regular use of Salt Shield creates a sacrificial barrier on the vehicle surface that mitigates the corrosive effect of salts.

### ORIGINAL



Cold rolled steel panel, SAE designation 1010.



When Salt Shield® is applied, it chemically reacts with the metal to form a coating.

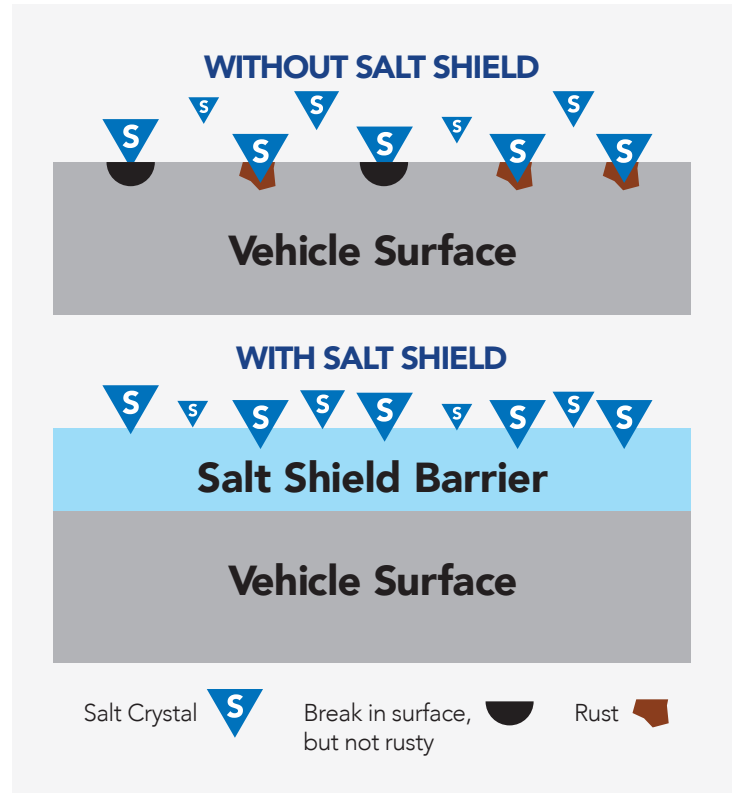
### AFTER EXPOSURE TO SALT SOLUTION



Rust forms on an untreated panel.



Salt Shield® coating acts as a protective barrier, enhancing resistance to rust formation.



## Salt Gator

### UNDERCARRIAGE WASHER

The Salt Gator is equipped with a unique chemical application feature and effectively flushes undercarriage dirt and debris. The three wheel assembly glides smoothly over rough, uneven surfaces and allows one handed operation. Salt Gator reduces cleaning time with a rotating stainless steel nozzle assembly that delivers a powerful 24" wide cleaning path. Salt Gator's ergonomically designed handle allows the user to reach all parts of the undercarriage from one side of a vehicle with minimal bending. Use EXT 450 Salt Shield® with the Salt Gator to reduce the corrosive effects of magnesium chloride and calcium chloride commonly found in dust suppressants, road salts and deicers.

### ADDITIONAL DETAILS

- Typical clean and rinse process can be accomplished under ten minutes
- Requires 2.5-8 gpm pressure washer
- 64 oz chemical container
- Chemical application feature with metering tips
- Requires 11.5 inch vehicle clearance







Neutral detergents are a good choice for friction (brush) cleaning of vehicles and as 2nd step in friction automatic truck washes. Neutral detergents will not work for touchless cleaning.

## Neutral Detergents

### EXT350 SUPER FOAM

### EXT291 JOLT

Metal Safe

Yes

Yes

Reclaim Compatible



Green

No

Yes

Sizes (Gallons)

5 / 30 / 55

5 / 15 / 30 / 55

#### EXT350 Super Foam

- Neutral pH detergent suitable for friction cleaning
- High foam
- Concentrated
- Metal safe

#### EXT291 Jolt

- Our best foam detergent
- High foaming
- Neutral pH
- Metal Safe
- Reclaim compatible

## Additional Truckwash Products

**CLE100 CLEAN SAFE** degreaser and orange solvent based cleaner

**ACE100 ACE 10 PLUS** degreaser

**TOR110 TORNADO DEGREASER**

**MOV100 MOVE YOUR ASPHALT** asphalt removing gel

**ASP100 ASPHALT RELEASE**

**CRE200 CRETE CUTTER**

**EXT450 SALT SHIELD**

Metal Safe

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Green

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Sizes (Gallons)

5 / 55 / 250

5 / 55 / 250

5 / 55

5

5 / 55

5 / 55

5 / 15 / 30 / 55

#### CLE100 Clean Safe

- Orange solvent based cleaner and degreaser
- Concentrated
- Heavy duty
- Metal safe
- Removes tar, asphalt, glues, gums

#### ACE100 Ace 10 Plus

- Degreaser and all purpose cleaning
- Heavy duty
- Metal safe
- Use to clean and degrease concrete floors, walls, vehicle surfaces, engines
- Can be applied with a pressure washer

#### TOR110 Tornado Degreaser

- Degreaser
- Concentrated
- Heavy Duty

#### MOV100 Move Your Asphalt

- Neutral pH gel
- Concentrated
- Heavy duty
- Metal safe
- Thick asphalt buildups can be removed through application of **MOV100 Move Your Asphalt**, dwell time of 12-15 minutes and a high pressure rinse. Longer dwell times, agitation and second applications all improve cleaning efficacy.

#### ASP100 Asphalt Release

- Apply product prior to loading asphalt into the truck
- Non-hazardous formula
- Has NOT been submitted for inclusion on approved/qualified products list with the Department of Transportation

#### CRE200 Crete Cutter

- Dissolves hardened cement on vehicle and equipment surfaces
- Apply to cool surface, morning or evening application in the shade for best results
- Dwell time will vary, can be left on surface overnight
- Dissolves concrete into a rinsable form

#### EXT450 Salt Shield

- Low pH product
- Cleans and neutralizes salts (winter deicers, all year dust suppressants)
- Easily integrated into wash routine
- Metal safe
- Environmentally friendly
- Reclaim compatible



## MECHANICAL ACTION

Force on the surface being cleaned.  
Friction: cloth, brushes. Touchless: water pressure, water volume.

## CHEMISTRY

Types of cleaning agent(s) and the concentration in which it is used. This can be measured through titration.

## TEMPERATURE

For every 50°F rise in temperature, the chemical activity doubles.

## WATER QUALITY

Hard water can decrease cleaning ability and effect equipment performance.  
General Rule: for every 4 grains of hardness, you will need 5-10% more product to clean at the same level.

## TIME

The amount of time the chemical and mechanical action remains on the surface. Generally, an increase in dwell time will increase the cleaning ability.

