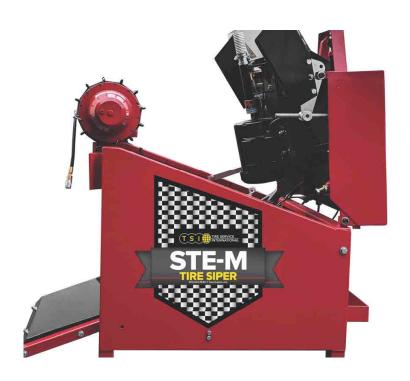
OPERATING MANUAL | STE-M, ST & SP TIRE SIPERS



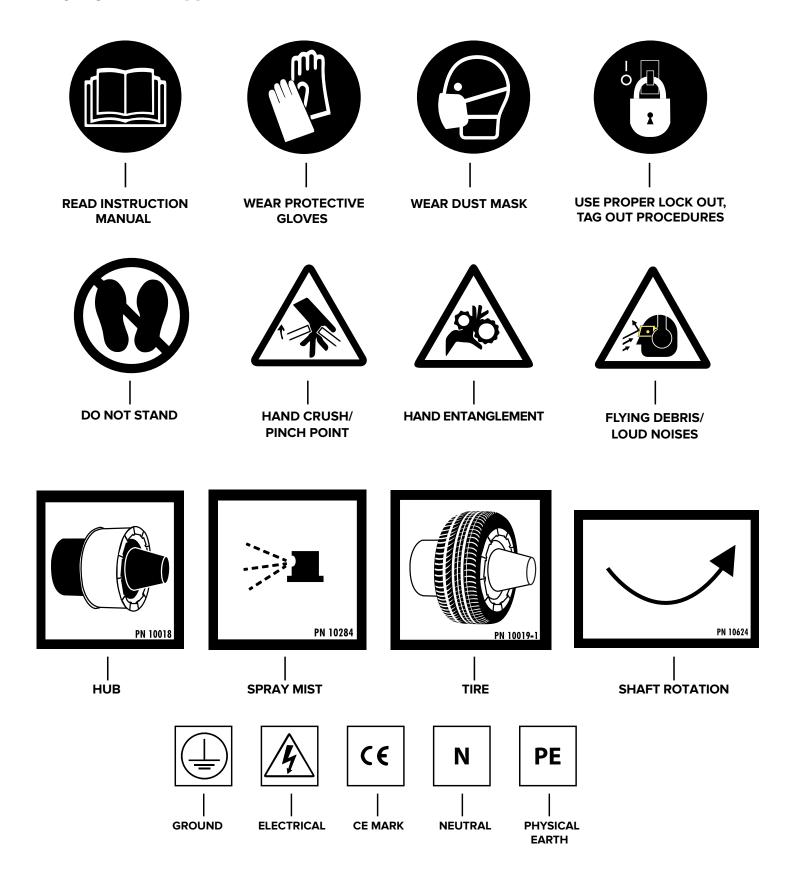






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3451 S. 40th St., Phoenix, AZ | www.buytsi.com Fax: 602.437.5025 | Email: sales@buytsi.com Made in the USA at our plant in Monticello, MN **DECALS** - MEANINGS



SPECIFICATIONS

ELECTRICAL REQUIRED:

120 Volts 1 Phase 60 Hertz

20 Amp Circuit

Electrical supply shall be 20 Amp fused or 20 Amp circuit breaker. The electrical circuit must be protected with a short circuit protective device.

AIR SUPPLY:

Minimum of ¼ I.D. Air Hose Minimum of 130 PSIG at the machine 6 CFM should be available Air supply should be filtered lubricated air

DIMENSIONS (Uncrated)

41"L x 44 "W x 46"H 460 lbs

NOTE: The STE-M electrical system is capable of operation correctly within a humidity range of 20 to 95 percent. The STE-M will withstand storage and transportation temperatures within the range of -25C to 55C (-13F to + 131 F) and up to 70C (158F), for short period not exceeding 24 hours. The STE-M will operate at altitudes up to 1000 m.

NOTE: If STE-M is operated below 32°F (0°C); The coolant media must either be a mixture containing anti-freeze or a windshield washer fluid.

TABLE OF CONTENTS

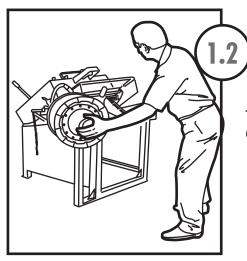
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SHIPPING & RECEIVING - UNPACKING SECTION ONE

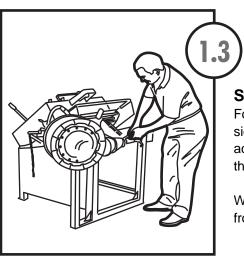
From all of us at TSI thank you for purchasing your Tire Siping Machine. The important operating & maintenance instructions contained here will ensure your Siper operates dependably for many years to come. This manual will provide the proper instructions for setting up, using and maintaining your siper.



When receiving your Siper after shipment, take a moment to look it over, although shipping damage is highly unusual now is a good time to note the condition it has arrived in.



To unpack, pull the pin and swing the expandable hub assembly out of the way (STE-M-only)



SET UP & SAFETY

For overseas units, the siper will be crated. Cut the bands. Remove the sidewalls and top of the crate. Unbolt the unit from the pallet and remove. The accessories and rims will be banded to the unit, cut the bands and remove from the unit.

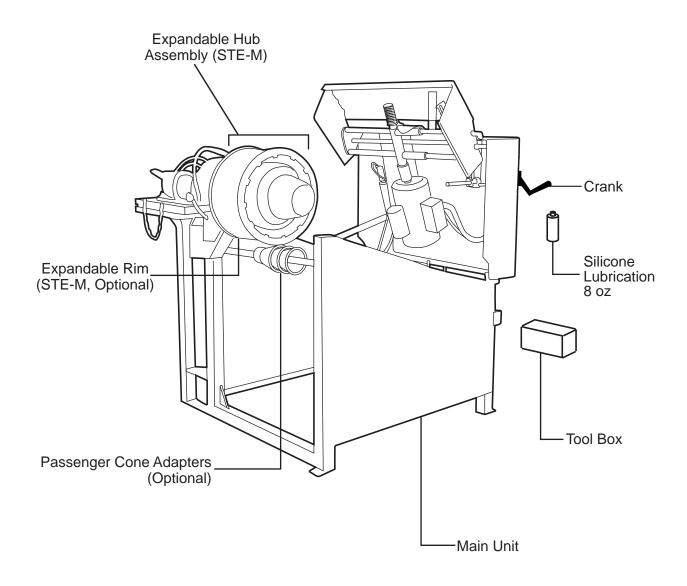
When working near or around the blade take care to position the blade away from you. Cut and remove the straps holding the hood down. Lift the hood.

SHIPPING & RECEIVING - PACKAGE CONTENTS



When working near or around the blade take care to position the blade away from you.

After you've completed unpacking your Siper please take a moment to review the package contents. The following items are shipped with your Siper:

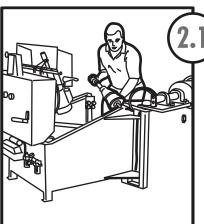


SET UP - BASIC REQUIREMENTS SECTION TWO

You will need an air supply that can supply 90 PSI of air and access to an electrical power source with at least a 30 AMP rating. For your air connection, a male couple will be needed and make sure to have some Teflon tape to help seal the connection airtight. Finally, you will need some chalk to make marks on the tires you are going to sipe.

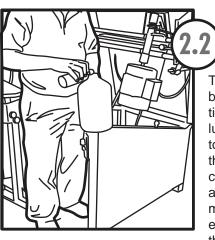
Operate the unit on a clean, level, non-slip surface. The approximate work area should measure at least 3 feet from the foot print of the machine, this distance is the minimum recommended for non-operators in proximity to the machine. The machine's foot print of 66"L X 48" W x 50" H. The shipping weight is 1050 lbs.

To transport the machine ensure the hood is down, the hub is in its stored position and the lock pin on the hub is in place.

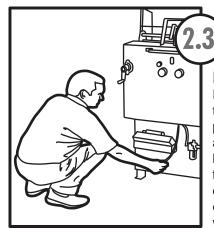


LUBRICATION

To gain access to the inside of your siper move the wheel mount assembly from its operational position on the side of the siper



To cool the cutting blade and lubricate the tire, mix 1 part silicone lubricant (part# 2.029) to 16 parts water and fill the mist unit supply container. Insert hose and secure. Engage the mister at the time of engaging the blade on the tire.



POWER CORD

Extend the power cord out the back of the cabinet to prevent it from being damaged by the stops on the hood. Position cord away from walkways, a nylon tied down may help to keep excess cord away from walk ways to prevent trip hazards.



If you need to use an extension cord, it needs to be a heavy-duty extension cord, use a heavy-duty 30 amp power strip to plug into.

DO NOT plug the siper in until you are ready to sipe.



AIR SUPPLY

Install correct air hose fitting.

(See arrow.) Use Teflon tape to prevent air leakage. Use correct size wrenches if available to grip fittings properly when tightening. The moisture trap has a view glass. Set the air regulator to 90 PSI.

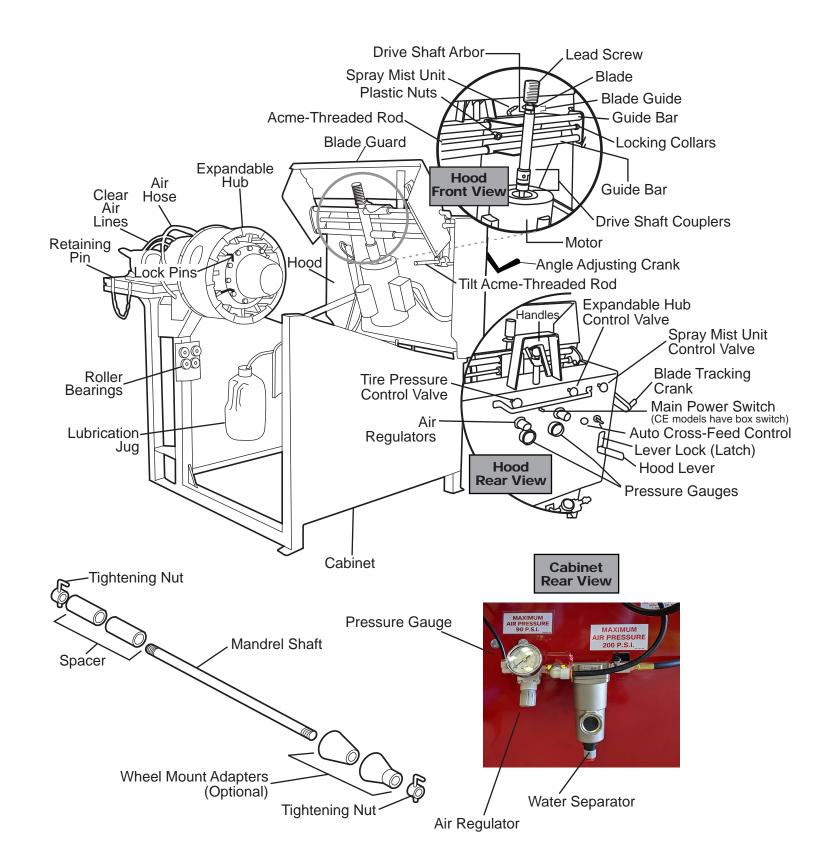


Remember to wear recommend PPE (Personal Protective Equipment) when working with the siper.

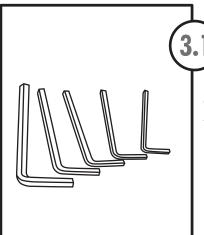
The drip pan should be installed to collect any run-off lubricant. All lubricant run off, rags and materials should be disposed of according to local environmental regulations. Please see the appendix or our website for the Material Safety Data Sheet (MSDS) on the siper lubricant.

Proper Personal Protection Equipment for the operation and maintenance of this machine includes gloves, eye, ear, inhalation, and foot protection. The A-Weighted Sound Pressure Level at work station measured at 79.8 dB(A).

ORIENTATION - CALL OUTS SECTION THREE

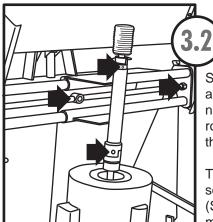


ORIENTATION - COMPONENTS SECTION THREE



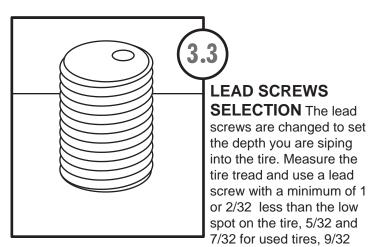
ALLEN WRENCHES

There is an Allen wrench to fit every set screw on the machine. The sizes provided are: 1/4, 5/32, 1/8 and 3/32.



Set screws are on the motor and drive shaft couplers, the nut on the ACME threaded rods, and the plastic nuts on the ACME threaded rods.

The machine will vibrate some when using it. (See section 6 for vibration maintenance procedures)

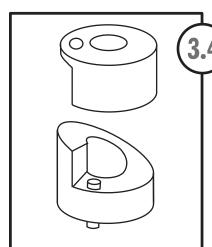


for most new passenger tires, 11/32 for most new light truck tires, and 13/32 for big truck tires (20" to 24.5").

TOOL BOX

Introduction

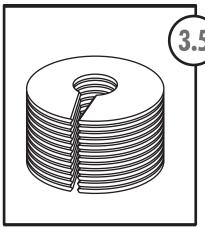
The tool box that comes with your Siper contains a variety of tools that you'll use through out the daily operation and maintenance of your new Siper.



BLADE GUIDES

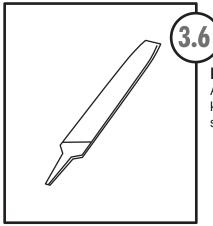
The siper has two blade guides supplied with it: 250/1000 for passenger and light trucks tires and 400/1000 for big trucks (20" to 24.5").

Guides of 300/1000 and 350/1000 are available as an option.



SIPING BLADES

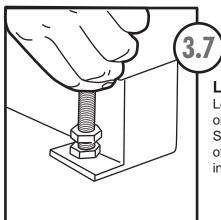
One dozen spare blades come with the siper.



FILE

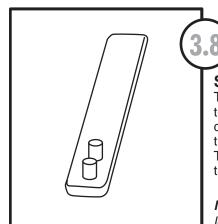
A file is provided to keep your blade sharp.

ORIENTATION - COMPONENTS SECTION THREE



LEVELING SCREWS

Leveling screws to mount on the front legs of the Siper to adjust any rocking of the Siper are also included.



SPANNER WRENCH

The spanner wrench is used to loosen the lead screws for changing the blade guide or the lead screws themselves. To see how this is done turn to page 11.

NOTE: Only hand tighten the lead screw. Never use the spanner wrench to tighten the lead screw.

TIRE SIPING MACHINE

OPERATION - MOUNTING & DISMOUNTING SECTION FOUR

The type of tires that can be siped will depend on the Siper model you own.

SP

The SP Siper is designed for mounted tires only and the sizes are limited to passenger car/light truck.

ST

The ST is also designed for mounted tires only but has a wider arrange of tire sizes from 12" to 24.5".

STE-M

The STE-M is designed to sipe both non-mounted and wheel-mounted tires with sizes ranging from passenger car/light truck to heavy truck tires. Typically brand new tires are unmounted and you will find that this will be the predominant way in which you'll sipe tires. For situations such as this the mounting process will be tailored for the expandable hub.

The second method is reserved for wheel-mounted tires and for this situation you'll be swinging the expandable hub aside (STE-M only) and using the wheel-mount adapters that come with your siper (STE-M, ST and SP).



Use proper lifting techniques when using the Sipers

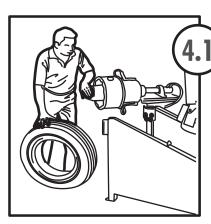
- Size up the load, ask for help if needed.
- Lifting loads heavier than 50 lbs will increase the risk of injury.
- Lift items close to your body from a low position
- Lift using your legs
- Carry the load close to your body from mid- thigh to mid-chest
- Avoid twisting, reaching or turning
- Information acquired from the US Dept. of Labor: Materials Handling guidelines.

EXPANDABLE HUB (STE-M ONLY)

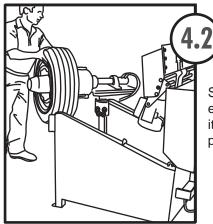
MOUNTING

To reduce the risk of injury, seek lifting assistance from a coworker when lifting larger tires on the expanding rim.

If your Siper is equipped with the wheel lift feature please see page 24 for instructions.

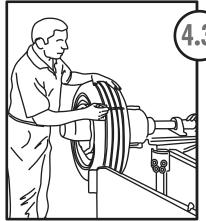


Pull the retaining pin to swing the expandable hub and rim assembly out. Remember to always use proper lifting techniques.



Set the tire on the expandable rim. Swing it back in and insert pin.

ORIENTATION - MOUNTING & DISMOUNTING **SECTION FOUR**



Make a small mark on the tire to use as a reference point. Ensure that a tire is properly mounted on the hub before expanding the rim.

PRESSURE SETTINGS

To Inflate: First, pull the inflate hub valve. Second, pull the inflate tire valve.

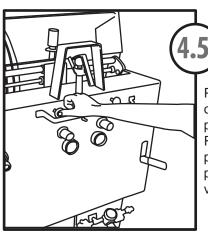
For passenger and light truck tires: Set the expandable hub pressure around 75-80 PSI and the tire inflation pressure at 30 PSI.

For big truck tires: Set the expandable hub pressure around 75-80 PSI and the tire inflation pressure at 30 PSI.

Note: If the expandable rim does not seal or contact tire properly, it is permissible to increase hub pressure by 10 lb increments up to max of 120 PSI. Normal operations are 90 PSI.

EXPANDABLE HUB (STE-M ONLY)

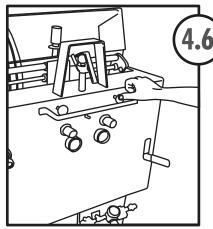
DISMOUNTING



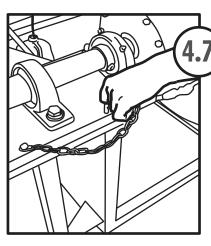
Pay close attention to the order in which this procedure is preformed. Release the **TIRE** pressure **FIRST** by pushing the valve in.



Visually inspect the tire is flat and hub is contracted.



Push in the expandable hub pressure release valve.

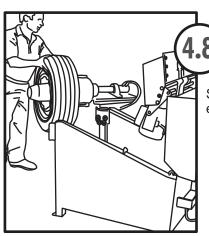


Pull the retainer pin holding the expandable hub assembly in place.

Please refer to the troubleshooting guide if the hub does not contract.

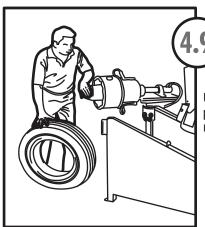


Always keep hands clear of the expanding hub while releasing the air pressure to avoid a possible pinch point.



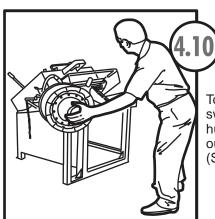
Slowly swing out the expandable hub assembly.

ORIENTATION - MOUNTING & DISMOUNTING SECTION FOUR

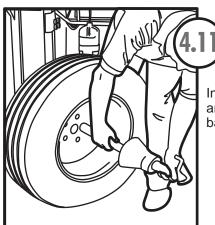


Using two hands and proper lifting techniques, remove the tire.

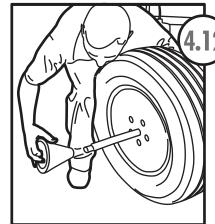
MOUNTED TIRES (ST, STE-M) – MOUNTING WHEEL PREPARATION



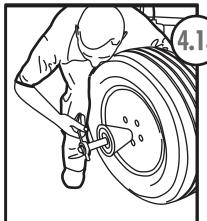
To sipe mounted tires, swing the expandable hub and rim assembly out of the way. (STE-M only)



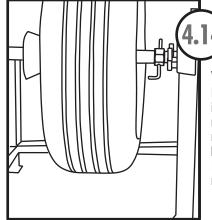
Insert the mandrel shaft and large cone on the back of the wheel.



Install small tapered cone on the front of the wheel.



Install spacer and mandrel shaft. Handle on the nut must face inward.



WHEEL PLACEMENT

Lifting assistance is important when lifting the mounted assembly. Set mandrel shaft into the roller bearings in the cabinet. Rotate tire to be sure nothing catches or is loose.

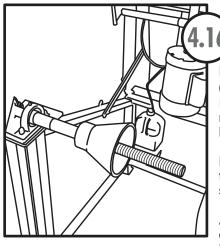


Mark the tire for a reference point and sipe the tire (See Siping section 5).

ORIENTATION - MOUNTING & DISMOUNTING SECTION FOUR

MOUNTED TIRES (ST, STE-M) – DISMOUNTING

Dismount the tire in the reverse order you mounted it

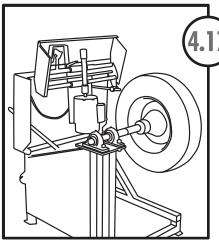


MOUNTED TIRE (SP)-MOUNTING

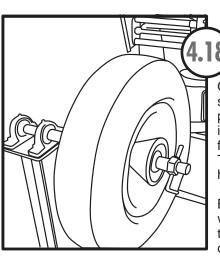
Insert the mid-sized spacer on the mandrel shaft, followed by the longest spacer.

Next insert the larger cone with the tapered end facing the mandrel shaft bearings.

Always use proper lifting technique or seek assistance when lifting heavy tires.



Mount the tire with the inside of the tire facing the cone.



Once the tire is in place insert the second cone with the tapered end pointing toward the wheel. Next insert the smallest spacer followed by the mandrel shaft. Tighten the mandrel shaft by hand until tight.

Be sure to check the assembly for wobble by spinning the tire. The tire should spin with NO wobble or side movement.

ORIENTATION - SIPING SECTION FIVE

INTRODUCTION

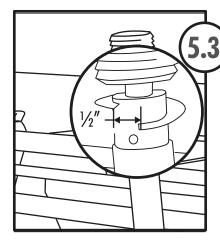
Although you'll find siping to be relatively easy it's important that we go through some pre-siping checkpoints.



Ensure hood is locked BEFORE sharpening blade.

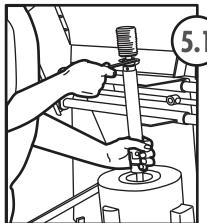


It's very important to disconnect the power supply to your siper when sharpening the blade. When available use gloves during this stage.

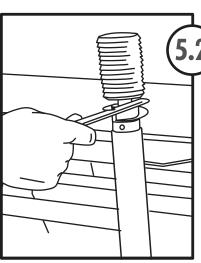


The blade can be sharpened until there is 1/2" space between the leading and trailing edge of the blade.

BLADE SHARPENING (ALL MODELS)



With the file in one hand hold the coupler of the drive shaft with the other hand.



File the leading edge of the blade from the bottom.

Take the burr off the top.

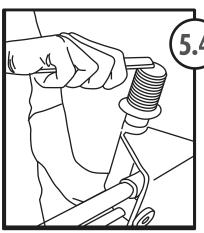
Round off the tip of the blade so it will follow the existing sipe on each revolution of the tire.

Sharpen blade on passenger and light truck tire every 8 tires. Big truck tires approximately every 4 tires.



When working with the file and blade always take care to prevent any injury.

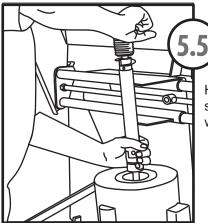
BLADE GUIDE & LEADS CREW CHANGING (ALL MODELS)



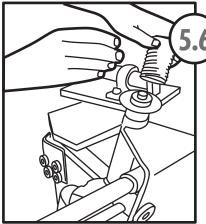
Insert the forward peg of the spanner wrench into the hole at the top of the lead screw.

NOTE: On a weekly basis check the blade for cracks and defects.

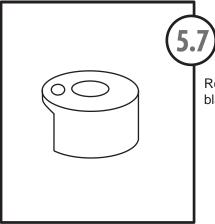
ORIENTATION - SIPING SECTION FIVE



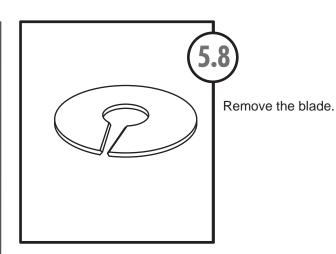
Hold the coupler on the drive shaft. Turn the spanner wrench.

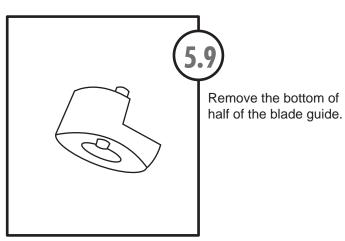


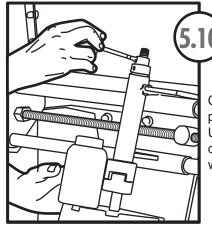
Remove the lead screw and washer.



Remove the top half of the blade guide.







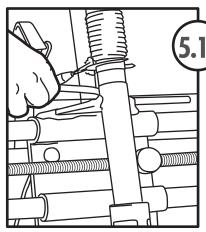
Clean parts and reverse procedure to install.
Use anti-seize on the drive shaft and parts when installing.

ORIENTATION - SIPING SECTION FIVE



Only tighten the lead screw by hand when assembling.

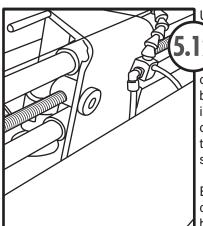
OPERATION AND SETTINGS OF THE SPRAY MIST COOLING UNIT.



The Spray Mist Cooling Unit is designed to cool the blade during siping and provide additional lubrication for the tire. See installation instruction (Fig. 2.2) for proper solution mixture for the cooling unit.



Damage to the blade and tire can occur if not properly lubricated while siping.



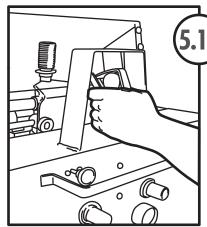
the spray mist unit to create a light mist on the blade. During operation of the siper the blade should be continually damp. If there is a significant amount of run off from the overspray on the tire, adjust the nozzle's spray to a lighter mist.

Engage the spray mist unit control valve button at the back of the unit at the same

time you engage the siping blade. The blade should be kept damp during the siping process.

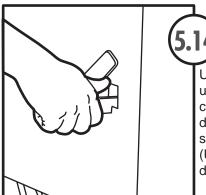
Periodically check the drip pan and empty as necessary according to local environment procedures. The drip pan should be installed directly under the siper to collect any run-off lubricant. All lubricant run off, rags and materials should be disposed of according to local environmental regulations.

Please see the back of the manual or our website for the Material Safety Data Sheet (MSDS) on the siper lubricant. www.buytsi.com



PRELIMINARY

Use your left hand for the handle and on switch.



Use your right hand to unlatch the hood and carefully lower the hood down to the tire without starting the Siper. (Use caution to prevent dropping the hood).

Please inspect these parts for normal wear.

The safety knob/grip, handle or shield should be replaced at the first signs of wear or malfunction.

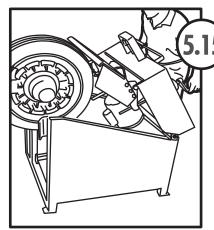
Knob/Grip

#15.550

Handle #90.070

Lock Bar Shield

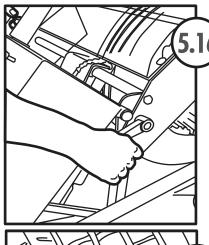
#54.298



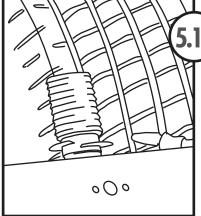
LEAD SCREW ALIGNMENT

Adjust the Siper blade so the lead screw is parallel with the tread of the tire.

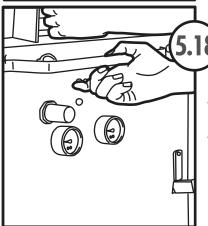
ORIENTATION - SIPING SECTION FIVE



Set the Siper to the left edge of the tire.

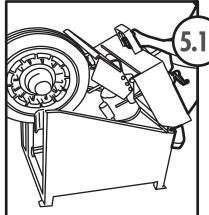


Have at least 3/4 the diameter of the lead screw on the surface of the tire.

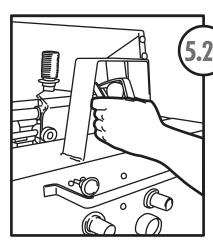


BEGINNING

With your left hand on the handle for the hood, turn the main power switch on.

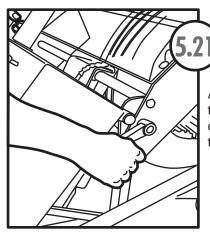


Pull the hood back and release lock on lever.

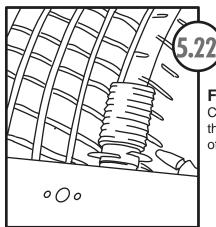


Squeeze the handle and lower into the tire at the reference point (chalk line).

At this time engage the spray mist unit. Start the spray mist unit at the same time you engage the blade.

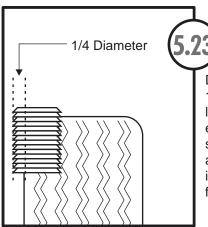


After each revolution of the tire turn crank 5 turns clockwise to move Siper to next section of the tire.



FINISHING

Continue siping across the tire to the right edge of the tread.



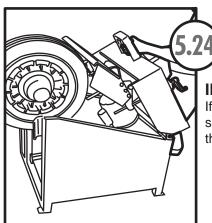
Do not let more than 1/4 the diameter of the lead screw off the edge of the tread surface. It's acceptable, on the last pass, if you do not get five full turns.

13

ORIENTATION - SIPING SECTION FIVE

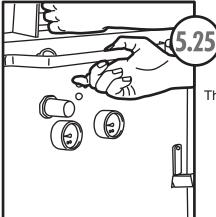
INSPECTION

The sipes should be plainly visible on close inspection of the tread.

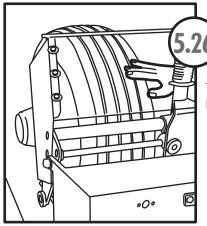


INTERRUPTIONS

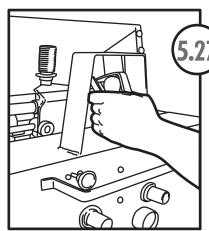
If you are interrupted while siping a tire, lift the hood from the tire with it running.



Then turn the power off.



To continue, rotate the tire back 1/4 turn.



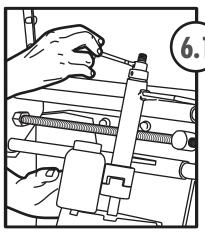
Start the Siper with the hood in the upright position and slowly lower into the tire. It will fall into the existing sipe.

MAINTENANCE - MAIN UNIT SECTION SIX



Unplug unit before maintenance

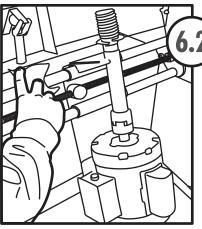
The STE-M requires regular maintenance to ensure dependable performance. Daily, weekly and monthly maintenance should be completed as recommend in the manual.



LUBRICATION

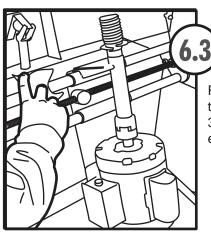
After you have removed the lead screw with the spanner wrench, apply a visible amount of anti-seize on these parts.

Refer to the Blade Guide and lead Screw Changing section 5 of this manual.

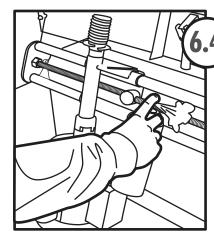


Keep the threads and guide bars clean by gently wiping down the surfaces with a clean rag as needed. Make sure to lube these items with a silicone spray lube.

WEEKLY MAINTENANCE

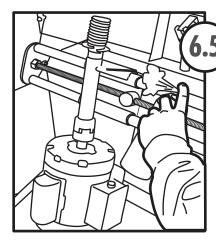


Raise the hood and clean the 2 guide bars using a 3M Scotch guard pad or emery paper.

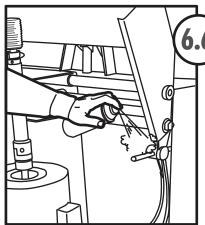


Using a silicon spray spray the guide bars.

NOTE: DO NOT use an oil which attracts dust and dirt



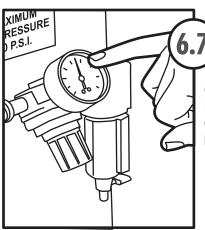
Spray the cross-feed ACME threaded rod.



Spray the tilt ACME threaded rod.

MAINTENANCE - MAIN UNIT SECTION SIX

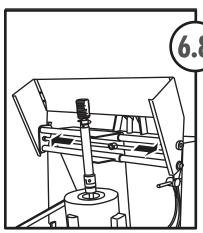
DAILY PREVENTATIVE MAINTENANCE



Check the regulator. Make sure your not exceeding the maximum pressure of 90 PSI.

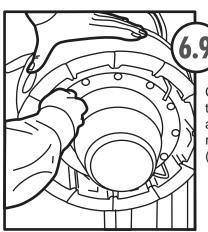
VIBRATION

Vibration is expected during the normal operation of your Siper. It's important to ensure that the following areas are checked and properly re-tightened accordingly.



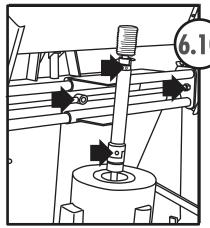
Loosen set screws on ACME adjusting nut using proper wrench. Adjust nut out to side frame on both sides. Do not over tighten.

Tighten set screw, test hand crank. It should turn freely. If not re-adjust.



Check the lock pins on the expandable hub once a day to ensure they remain locked. (STE-M Only)

WEEKLY PREVENTATIVE MAINTENANCE



Use the supplied allen wrench to physically check the tightness of the set screws on the blade guides, coupler and and the cross feed nuts both on the cross feed rod and the tilt rod



Always follow proper lockout/tagout procedures

The siper drive shaft bearings, hood latch, and other moving parts will require replacement if showing signs of malfunction or wear. These should be inspected when performing monthly safety inspections on the equipment.

TROUBLESHOOTING THE SIPER

SIPER MOTOR WILL NOT RUN

Possible causes:

- 1. Drive shaft seized
- 2. Power Switch malfunction
- 3. Handle Control switch malfunction

Solutions:

- 1. Unplug the Siper
- 2. Try to spin the drive shaft by hand. Verify bearings are in working order
- 3. Test power switch for continuity
- 4. Test handle control for continuity

BLADES BREAKING

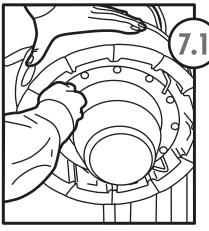
Possible Causes:

- 1. Washer missing from between lead screw and top blade quide.
- 2. Blade guides worn out or improperly installed.
- 3. Leading edge of blade too pointed (round off with file)
- 4. Angle of lead screw set improperly
- 5. Rocks and or debris not removed from tire
- 6. Lead screw worn out
- 7. Drive shaft bearing is worn out

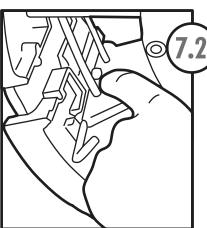
MAINTENANCE - EXPANDABLE HUB SECTION SEVEN

The frequency in which these procedures are needed may depend on humidity and or moisture levels in your compressed air supply.

Please refer to the expandable hub maintenance and troubleshooting guide for further instructions on signs of wear and replacement parts.

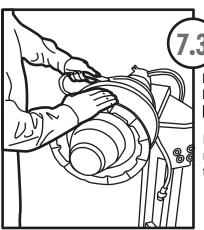


Check the four expandable rim locks to make sure they are locked into position. This involves physically feeling the locks to make sure they are turned counter clockwise.



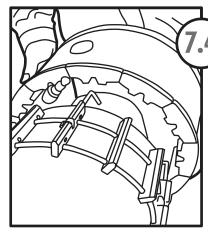
Expand your rim. Look in your hub to see the tab locking into the rim. Make sure that all four are locked into position.

WEEKLY PREVENTATIVE MAINTENANCE



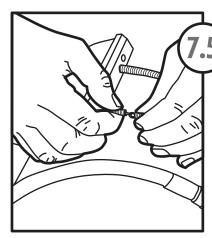
REMOVE THE EXPANDABLE RIM [1 of 2]

Remove your expandable rim by by first detaching the 2 air supply hoses.



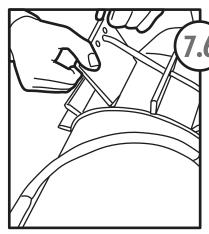
REMOVE THE EXPANDABLE RIM [2 of 2]

Continue by unlocking the tabs and pulling gently on the rim to remove.



REMOVE THE PADDLES [1 of 4]

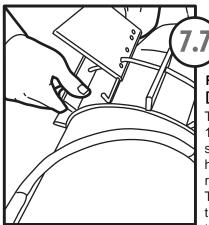
Disconnect one of the two springs (rear spring recommended) and gently remove the spring by pulling it out of the paddles. Set the spring aside.



REMOVE THE PADDLES [2 of 4]

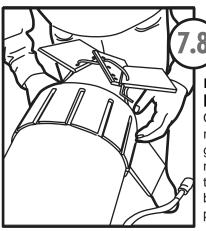
Remove your paddles one at time by pulling staight up until they're completely out of the paddle slot.

MAINTENANCE - EXPANDABLE HUB SECTION SEVEN



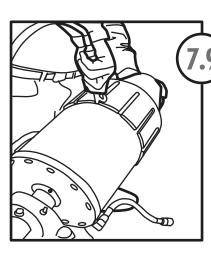
REMOVE THE PADDLES
[3 of 4]

Then turning the paddle 180° and allowing the spring side to rest on the hub before continuing on to remove the next paddle. This will make removing the ring of paddles from the hub easier.



REMOVE THE PADDLES
[4 of 4]

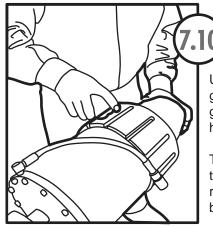
Once all the paddles are removed pull the collection gently away from the hub making sure to free any of the paddles that may get bound up by the locking pins.



Using an air hose blow compressed air directly into the open paddle slots giving an approximate 2-3 second blast deep inside the slot working the hose side to side. This will help dislodge and expel any dirt or debris that may have collected in the hub. Insert the air hose into every other slot for sufficient air distribution.



Only use a Marine grade grease such as TSI #10787

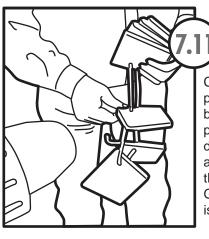


Using a marine grade grease apply a film of grease to each slot of the hub.

Turn the hub to advance to the next open slot and repeat until all slots have been lubricated.



Protective gloves are recommended when installing paddles.

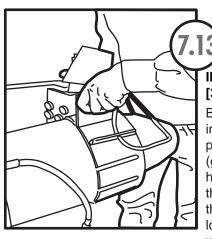


Carefully clean each paddle and the two springs before installing them. The paddles must be free of dirt and debris. If rough areas are present remove them using a 3M Scotch Guard pad or emery paper is suggested.



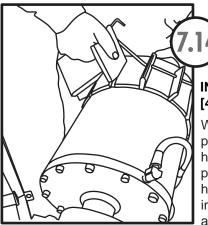
The slanted surface on each paddle inserts into the slots and ride against the cone within the hub. Apply an even film of marine grade grease on the slanted surface of each paddle.

MAINTENANCE - EXPANDABLE HUB SECTION SEVEN



INSTALL THE PADDLES
[3 of 7]

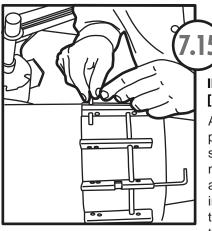
Begin inserting the paddles into the hub. Align the paddles so that the slanted (greased) side rest inside the hub. The narrower portion of the paddle slides in nearest the rear of the hub. The longer portion - nearer to you.



INSTALL THE PADDLES [4 of 7]

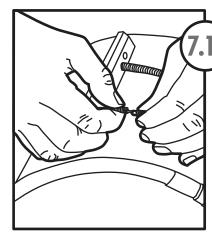
When installing the 12 paddles in in the slots on the hub make sure the four paddles with locking tabs have two plain paddles in between them. Install about six of the paddles and

temporairy connect the spring through them. Rotate the hub and continued installing the paddles.



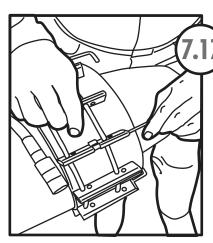
INSTALL THE PADDLES [5 of 7]

As you install the remaining paddles disconnect the spring, thread it through the newly installed paddles until all 12 are installed. Now insert the rear springs into the outer holes and thread the spring through each paddle.



INSTALL THE PADDLES [6 of 7]

Reattach the spring ends when they meet.



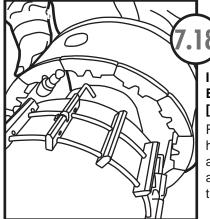
INSTALL THE PADDLES [7 of 7]

Once the spring is reattached check to make sure the locking tabs are UNLOCKED.

After putting in the springs and paddles the photo below shows what the completed assembly will look like.

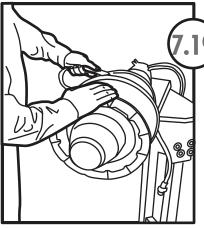


MAINTENANCE - EXPANDABLE HUB SECTION SEVEN



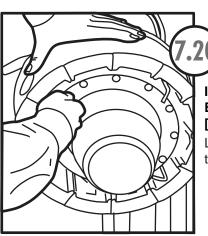
INSTALL THE EXPANDABLE RIM [1 of 2]

Reinstall the rim onto the hub making sure that the airline couplers on the rim are facing the airlines on the hub.



INSTALL THE EXPANDABLE RIM [1 of 2]

The rim must be positioned so that when the hub air hose are connected, they have as much possible to accomodate the distance required for expanding.

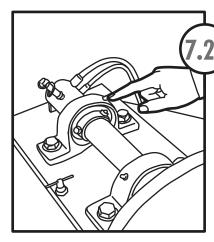


INSTALL THE EXPANDABLE RIM [2 of 2]

Lock the locking tabs on the rim and expand the rim.



Physically and visibly check to ensure the locking pins are secure before deflating the rim.

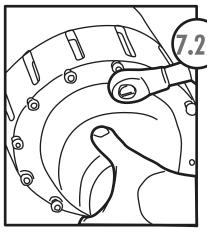


Also check the tightness of the axle set screws located on the expandable hub. Deliver 1 shot of chassis lube to the sealed bearings on the expandable hub axle.

1-6 MONTH PREVENTATIVE MAINTENANCE

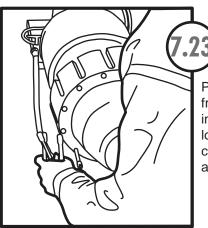
Remove the expandable rim (Refer to Fig. 7.3 -7.4)

Remove the paddles (Refer to Fig. 7.5 -7.9)

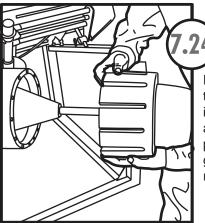


Remove the expandable rim and paddles before performing the following procedures. Take the front cover of the hub off by loosening the cover bolts but leaving them seated in the holes.

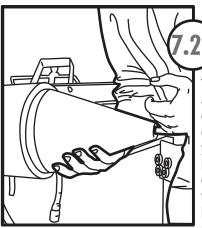
MAINTENANCE - EXPANDABLE HUB SECTION SEVEN



Pull the hubs cover away from the hub about 6 - 8 inches. Then remove the loosened hub cover bolts completely and set them aside.

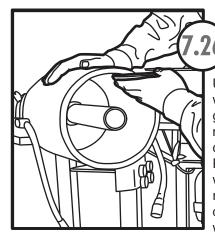


Pull the cover out straight taking care not to bend the inner shaft. Once the cover and shaft assembly is pulled out completely gently set it aside and remove the cone.



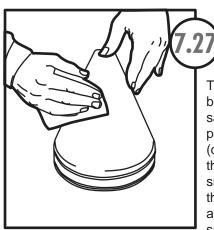
To remove the cone insert a finger into the shaft opening of the cone (being careful not to injure yourself). With the other hand grasp the narrow tip of the cone and gently work the cone out of the hub chamber. You many need to gently work the

cone up and down as you pull out the cone out. Be careful not to the drop the cone it may come out unexpectedly. Set the cone on the base with cone pointing upward.



Using a cleaning solvent wash and wipe out any grease, oil or buildup that maybe on the inside of its cylinder. Using a 3M Scotch Pad to gently rub the inner walls of the hub chamber removing any lose dirt or debris. Polishing the inside will help remove any possible

corrosion. The finished walls should feel ultra smooth.

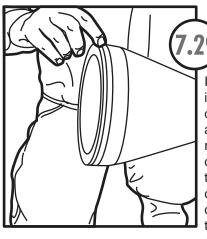


The cone will also need to be smoothed out by the same method. With the cone placed on a flat surface (cone pointing upward) use the same type of pad to smooth the outer surface of the cone. Pay special attention to the cone's surface to ensure they are very smooth to the touch.



Once the cone surface is clean and smoothed, pick up the cone turning it on its side and resting it on a towel or soft surface like your lap or knee. Then smooth the flat outer surface where the rubber seal is located.

MAINTENANCE - EXPANDABLE HUB SECTION SEVEN



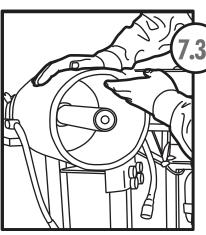
Inspect the rubber seal itself feeling for cracks and defects. If defects do appear in the large outer rubber seal or in either one of the small inner seals (at the tapered end of the cone) then contact us to obtain service kit (#10194) to replace the defective seal



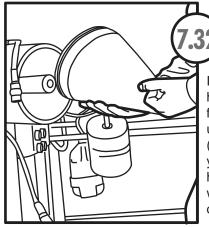
Lubricate the outer surface of the cone with a film of marine grease.



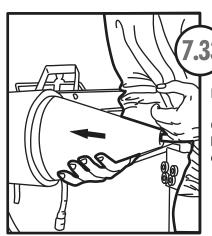
Only use a marine grade bearing grease such as TSI #10787



Lubricate the inside of the hub chamber as well. Apply an even film of marine grade bearing grease.

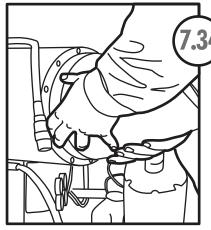


Insert the cone back into the hub chamber (tapered end facing you). Picking the cone up by inserting a finger (being careful not to injure yourself) into the top of the hub and supporting the weight of the cone by the other hand.



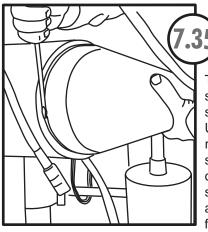
Now reinstall the cone.

Carefully align the outer base with the hub chamber opening.



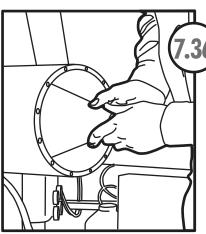
Holding the tapered end securely, begin to apply pressure to the larger outer rubber seal located at the base of the cone. This seal will form an air tight seal creating a tight fit. The seal must be compressed allowing the cone to seat inside the hub chamber.

MAINTENANCE - EXPANDABLE HUB SECTION SEVEN

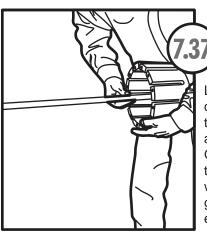


The use of a flat head screw driver may help to slowly compress the seal. Use of any tools could result in damage to the seal so never push the tip of the screw driver into seal but rather pull the tip along the seal forcing it to flatten. It may help to start

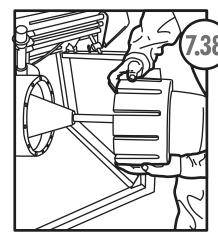
at one side of the seal and focus on compressing it enough to allow the cone to gain ground.



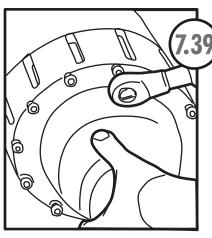
Eventually the rubber seal will be entirely contained with the hub chamber and the cone should then be gently eased into the chamber until it comes to rest on the back wall of the hub chamber.



Locate the shaft and hub cover assembly. Inspect the shaft, rough areas and use 3M Scotch Guard pad to smooth them. Grease the shaft with a film of marine grease evenly along the entire length.



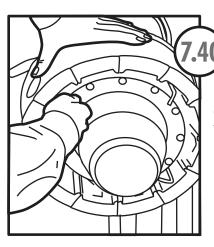
Insert the shaft and hub cover assembly into the tapered opening of the cone using extra caution as to not bend the shaft.



Once in place insert the hub cover bolts and insert them into the appropriate holes. Make sure each bolt is started by hand prior to using any air wrench or ratchet.

Install the paddles (Refer to Fig. 7.11 -7.17)

Install the expandable rim (Refer to Fig. 7.20 -7.21)

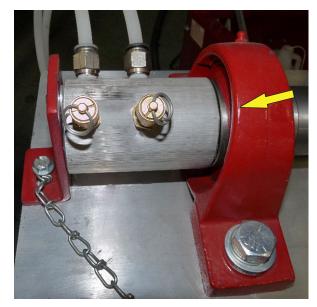


Lock the locking tabs on the rim and expand the rim.



Physically and visibly check to ensure the locking pins are LOCKED and secure before deflating the rim.

MAINTENANCE - EXPANDABLE HUB SECTION SEVEN



For proper function of air flow through the expandable Hub system allow a slight gap. See yellow arrow.

Upon making adjustments or maintaining your machine this gap must not exceed 1/16 inch. A larger gap can substantially decrease proper air flow to the expandable hub.

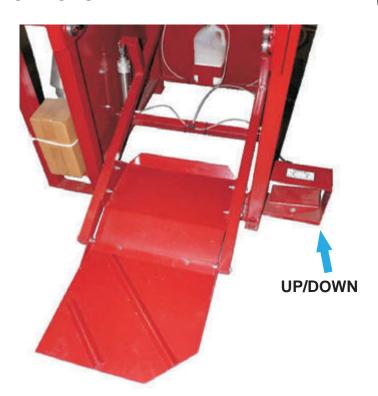


Grease the inlet hub as located by the two red arrows.

Under normal usage add one pump of grease to each zerk every 30 days.

TIRE SIPING MACHINE

OPTIONS - WHEEL LIFT





Stand clear of lift mechanism before pressing pedal

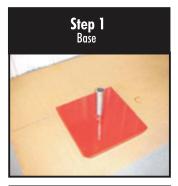
THE WHEEL LIFT

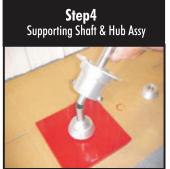
Roll the tire onto the lift ramp until it reaches the backstop. Stand clear of ramp and press the foot pedal (Indicated by blue arrow) to engage the lift. Once the lift reaches the top, engage the wheel into the bearing slot. When the tire is engaged in the bearings, stand clear of the lift ramp and press the pedal to lower the lift ramp.



OPTIONS - 6030 QUICK LOCK WHEEL ADAPTER

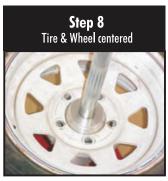
USE ON ST & STE-M MODELS



















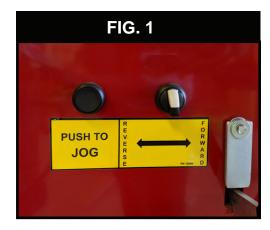






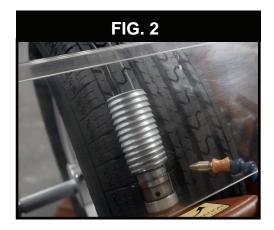
OPTIONS - STE-M AUTOMATIC CYCLE FEED

OPERATION - #6005



STEP 1.

Turn switch to the left to reverse motor into position on the tire to be siped. See (Fig. 1)



Approximate blade guide positioning shown on tire. See (Fig. 2)

Position blade at same starting position as with the manual crank machine.



STEP 2.

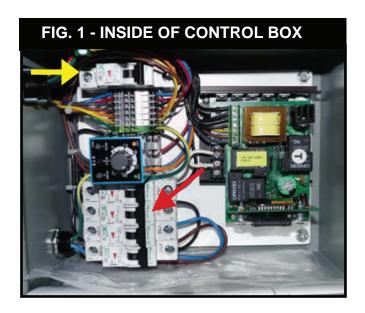
Squeeze handle switch to start machine operation. Engage spray unit mist. After tire turns one revolution PRESS TO JOG BUTTON to move blade guide set over to proper cutting row position. See (Fig. 3)

**Repeat this operation until complete tire is siped.

OPTIONS - STE-M AUTOMATIC CYCLE FEED AUTOFEED CONTROL BOX BASICS - TROUBLESHOOTING



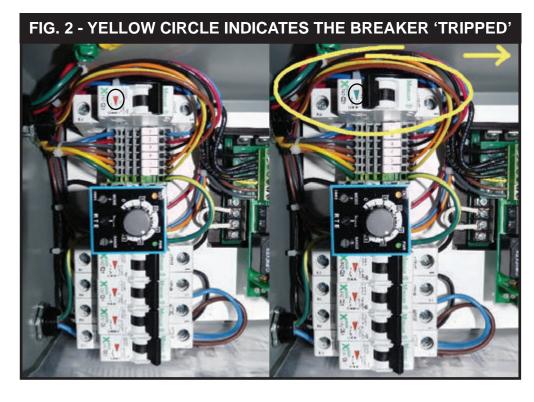
Disconnect power before opening control box



NOTE: Prior to shipping, the electronic components in each control box are factory set, tested and approved for optimum performance.

If, upon installing a Siper STE-M with an Automatic Cycle Feed (ACF) feature and it fails to work, please review this guideline.

Disconnect your power source. Open the control box located on the side of the machine. Visually check to see if the breaker has 'tripped.' Reset the breaker.



In Fig. 2 a circuit breaker is tripped (circled in yellow). Note the position of the toggle switch and the red arrow changing to green. If any breakers 'trip,' flip the toggle and return it to an "ON" position

OPTIONS - STE-M AUTOMATIC CYCLE FEED AUTOFEED CONTROL BOX BASICS - TROUBLESHOOTING



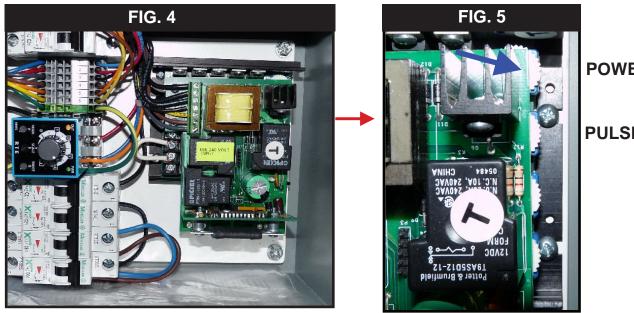
Reconnect power to the unit and turn "ON."

Look for a green light indicating the power is ON. See green arrow. (Fig. 3)

If the green light is not on recheck the breakers.

FYI: The orange arrow points to where an orange light comes on when the unit is in "JOG" mode. This should not be a factor but that's what the orange light is for. The dial changes the Jog distance. This too is a pre-set and should not be a factor.

The photos below identify the PC board in the control box. (Fig. 4 & 5) There are four adjustment wheels that are key to setting up the Siper Autofeed.



POWER

PULSE/ SURGE

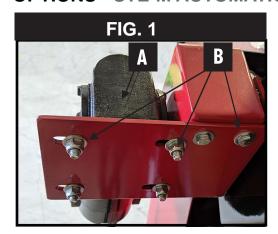
This procedure covers adjusting the first wheel, power and possibly the second wheel, pulse/surge. Only change one of these at a time and ONLY one notch at a time.

See Fig. 5 and turn wheel clock wise one notch.

It may be necessary to adjust the power setting by as many as 3 notches. Once the gear motor begins operating it may operate intermittently. Turn pulse adjustment wheel one notch counter clockwise. Fine tune this setting one notch at a time.

When complete close and secure the control box cover.

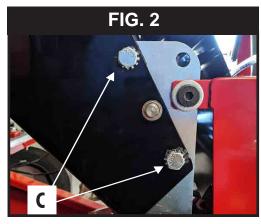
OPTIONS - STE-M AUTOMATIC CYCLE FEED



MOTOR GUIDE ADJUSTMENT:

Occasionally due to machine use and movement the cross feed guide bars may become misaligned causing the right angle motor (Fig I. A) to pull hard and blow a fuse. Unplug the unit.

To realign, loosen cap screw (Fig. 2C) reposition guide bars so they are parallel and retighten.



MANUAL OPERATION:

Please remove motor (Fig. 1A) by loosening bolts and nuts (Fig. 1B) and replace with the manual crank.

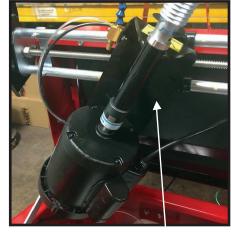
TIRE SIPING MACHINE

OPTIONS - ANGLE SIPE / WHEEL ADAPTERS



ANGLE SIPE OPTION #6166

The motor drive unit on a Siper can include an angled motor mounting bracket. This option enables tires to be siped at four additional 15 degree angled increments than a standard unit.





WHEEL ADAPTERS

Two large sized wheel adapters for non mounted tires are available for Sipers.

#6138: 19.5" #6143: 22.5"

NOTE: Mandrel and nuts sold seperately

APPENDIX

REPAIR PARTS

ITEM NO.	DESCRIPTION
18.071	Siper Blades
24.929	250/1000 Blade Guide Set Stamped "A"
25.929	300/1000 Blade Guide Set Stamped "AA"
26.929	350/1000 Blade Guide Set Stamped "D"
27.929	400/1000 Blade Guide Set Stamped "E"
28.816	Siper File
6.887	Spanner Wrench
58.242	5/32 Lead Screw
57.242	7/32 Lead Screw
56.242	11/32 Lead Screw
55.242	13/32 Lead Screw
62.242	9/32 Lead Screw
6030	Quick Mount Wheel Lock Adapter
33.901	1125mm 10 Budd Adapter
43.901	35mm x 10 Budd Unimount Adapter
42.901	285.75mm x 10 Budd Unimount Adapter
167.190	Spray Mist Coolant Unit
2.029	Silicone Emulsion
3738-1	Handle Control Switch
4038-1	Toggle Switch
4479	Blade Shield
10787	Hub Grease
4954	Hand Crank
5.964	8" Drive Shaft Kit
31.034	Coupler with Spider
31.034C	Spider Only
128.055	Crossfeed Nut

Warranty Statement & Return Policy

Warranty & Workmanship you can depend on.

With over 30 years of manufacturing experience we maintain the ability to provide competitive prices while employing and manufacturing the majority of our products in the USA. Pride in our workmanship and standing behind each and every product is not just our claim but our uncompromising responsibility.

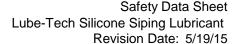
Tire Service International equipment is warranted to be free from defects in materials and workmanship for a period of one year from the date of original purchase to the original owner. Repair labor is warranted for 90 days from the date of original purchase. Bushings, blades, bearings and normal wear and tear are not covered under warranty. Careless handling, negligence, misuse, abuse, mutilation, improper operation, making unauthorized repairs, additions, and or alterations automatically cancel this warranty and relieves TSI of any obligation. Cheetah tanks claimed to be defective while under warranty will be evaluated at our manufacturing plant and either repaired if possible or exchanged and returned or credit issued to the customer account at our discretion. Damage resulting from dropping the tanks will not receive warranty consideration. Warranty parts need to be returned prepaid to the plant for credit. Any replacement parts shipped from the plant will be shipped at the customer's expense. Machines requiring warranty work must be brought to the manufacturing plant in 201 Chelsea Rd, Monticello, MN or to a repair facility authorized by TSI.

Return Policy:

!!WARNING!! Goods returned without an RGA will be refused. A Returned Goods Authorization form must be obtained before returning any material or goods. All non-warranty returns will be subject to a 15% restocking fee plus any additional charges for reconditioning/repacking.



Rev 2.14.2019





Prepared according to Global Harmonized System (GHS) standards

SECTION 1

CHEMICAL PRODUCT IDENTIFICATION

Lubrication Technologies, Inc. 900 Mendelssohn Avenue North Golden Valley, MN 55427-4309 Tel: 763-545-0707

Product Trade Name: Lube-Tech Silicone Siping Lubricant

CAS Number: Mixture

Synonyms/Other: Silicone emulsion

Part Number(s): NA

Recommended Use: Siping Lubricant
Restrictions on Use: Not determined
Created Date: 5/19/2015
Preparation/Revision Date: 5/19/2015

Emergency Phone Number: 1-800-424-9300 (CHEMTREC)

SDS CODE: 10300

SECTION 2

HAZARD IDENTIFICATION

Appearance: White liquid Odor: No odor

Classification: Eye damage / irritation category 2

Acute Toxicity - oral category 4

Target Organs: Stomach and intestines, Eyes

Pictogram(s):

 $\langle \hat{\cdot} \rangle$

Signal Word: WARNING

Hazard Statement: H302 - Harmful if swallowed

H319 - Causes serious eye irritation

Other Hazards: Not determined.

Prevention: P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response: P330 - Rinse mouth

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

ınwell

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

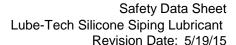
Remove contact lenses if present and easy to do – continue rinsing P337+P313 - If eye irritation persists get medical advice/attention

Storage Procedures: None required.

Disposal: P501 - Dispose of contents and container in accordance with federal, state, and local

regulations

Other: See section 11 for complete health hazard information.





SECTION 3 COMPOSITION OF INGREDIENTS

Component	CAS Number	Percentage (by weight)
Octylphenoxypolyethoxyethanol	9036-19-5	1.0-3.0%
Polyalkleneoxide Modified Heptamethyltrisiloxane	67674-67-3	0.1-1.0%
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	6440-58-0	0.1-1.0%

The balance of components do not contribute to the overall classification of the fluid, according to the GHS Standard.

SECTION 4 FIRST AID MEASURES

Eye Contact: Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of

exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice or attention.

Skin Contact: Call a doctor if you feel unwell.

Inhalation: Get medical advice or attention if you feel unwell or are concerned.

Ingestion: Rinse mouth. Call a doctor if you feel unwell.

Other: No additional information

SECTION 5 FIRE FIGHTING MEASURES

Flammable limits:
Not applicable.
Flammable limits:
Not applicable.

Extinguishing media:
Not applicable.

Special firefighting procedures: General directions - product will not burn without driving water from material first.

level and low spots to create an invisible fire hazard.

Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual fire & explosion

High temperatures may create heavy flammable vapors that may settle along ground

hazards:

Fires involving this product may release oxides of carbon, nitrogen and sulfur; reactive

hydrocarbons and irritating vapors.

Autoignition temperature:

Byproducts of combustion:

Not determined.

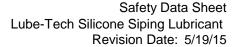
Explosion data:

Not determined. Care should always be exercised in dust/mist areas.

Other: Dispose of

Dispose of fire debris and contaminated extinguishing water in accordance with official

regulations.





SECTION 6

ACCIDENTAL RELEASE MEASURES

Spill control procedures (land): Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. Clean up residue with water. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).

Spill control procedures

(water):

If a large spill occurs notify appropriate authorities (normally the National Response

Center or Coast Guard at 800-424-8802).

Do not empty into drains. All disposals must comply with federal, state, and local Waste disposal method:

> regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply

for transporting this material when spilled. See Section 14.

CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste Other:

mixture will be regulated.

HANDLING AND STORAGE SECTION 7

Keep containers closed when not in use. Do not transfer to unmarked containers. Empty Handling procedures:

> containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation

centers for proper cleaning and reuse.

Handling temperatures should not exceed 60°C (140°F) to min imize danger of burns. Open containers carefully in a well ventilated area or use appropriate respiratory

protection. Wash thoroughly after handling.

Storage procedures: Store containers away from heat, sparks, open flame, or oxidizing materials. Extended

storage at excessive temperatures may produce odorous and toxic fumes from product

decomposition.

No additional information. Additional information:

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product:

Component	CAS Number	OSHA PEL	ACGIH TLV
Octylphenoxypolyethoxyethanol	9036-19-5	-	-
Polyalkleneoxide Modified	67674-67-3	-	-
1,3-Bis(hydroxymethyl)-5,5-	6440-58-0	-	=

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

Personal protection: Applicable mainly to persons in repeated contact situations such as packaging of

product, service/maintenance, and cleanup/spill control personnel.

None required if ventilation is adequate. Otherwise a respiratory protection program Respiratory protection:

meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form

dust/mist air purifying respirator.



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Eye protection is strongly recommended. Wear safety glasses with side shields or Eye protection:

vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

Hand protection: Impervious, chemically resistant gloves such as neoprene or nitrile rubber to avoid skin

sensitization and absorption.

Use of an apron and overboots of chemically impervious materials such as neoprene or Other protection:

nitrile rubber is recommended based on level of activity and exposure. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.

Local control measures: Use adequate ventilation when working with material in an enclosed area. Mechanical

> methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure. Eyewash stations and showers should be available in

areas where this material is used and stored.

Other: Consumption of food and drink should be avoided in work areas where product is

present. Always wash hands and face with soap and water before eating, drinking or

smoking.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White liquid Odor: No odor

Odor threshold: Not determined.

6.5 - 7.5. pH:

Melting/Freezing point: Not determined.

Approximately 212^F (100^C) Initial boiling point:

Not determined. **Boiling range:** Flash point: Not applicable.

Evaporation rate: <1.

Non-flammable Flammability: Non-flammable **Upper flammable limit:** Lower flammable limit: Non-flammable Vapor pressure: Similar to water. Not determined. Vapor density: Relative density: Not determined.

Solubility: Miscible in water, negligible in most petroleum solvents.

Partition Coefficient: Not determined. **Auto-ignition temperature:** Not determined. **Decomposition temperature:** Not determined. Not determined. Viscosity: Other Not applicable.

SECTION 10

STABILITY AND REACTIVITY

Reactivity

Chemical stability: Material is chemically stable at room temperatures and pressure.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid high temperatures and product contamination. Incompatibility with other

materials:

Avoid contact with acids and strong oxidizing materials.



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Decomposition products: Smoke, carbon monoxide, carbon dioxide, and other aldehydes of incomplete

combustion. Oxides of carbon, nitrogen, and sulfur; reactive hydrocarbons and irritating

vapors.

Other: Not applicable.

SECTION 11

TOXICOLOGICAL INFORMATION

Acute toxicity (LD50) *See note at the bottom of the section

Oral: 300 - 2000 mg/kg

Dermal: >5000 mg/kg

Inhalation: >20.0 mg/l

Skin irritation: Non-irritant

Eye irritation: Causes serious eye irritation

Dermal sensitization: Not expected to have a sensitizing effect. **Respiratory sensitization:** Not expected to have a sensitizing effect.

Aspiration Hazard: Not applicable

Chronic Toxicity

Mutagenicity: Not suspected of causing genetic defects

Carcinogenicity: Not suspected of causing cancer.

Reproductive toxicity: Not expected to have adverse effects on reproduction.

STOT-single exposure: Not expected to have adverse effects.

STOT-repeated exposure: Not expected to have long term adverse effects.

Other: *All data in this section is based off calculations from Part 3 of the Globally Harmonized

System of Classification and Labelling of Chemicals (GHS) utilizing information from the

constituent components.

SECTION 12

ECOLOGICAL INFORMATION

Environmental toxicity

Fish: > 100 mg/l.Invertebrates: > 100 mg/l.Aquatic plants: > 100 mg/l.Microorganism: > 100 mg/l.

Persistence/Degradability: This product is expected to be readily biodegradable.

Bioaccumulation: Not determined.

Mobility in soil: Not determined.

Other: All classifications are based on calculations in Part 4 of the Globally Harmonized System

of Classification and Labelling of Chemicals (GHS) utilizing information from the

constituent components.

SECTION 13

DISPOSAL CONSIDERATIONS

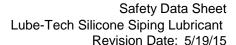
Waste disposal: This product unadulterated by other materials can be classified as a non-hazardous

waste. Depending on use, used product may be regulated. Dispose of in a licensed facility. Do not discharge product in to sewer system. Dispose of containers by crushing or puncturing, so as to prevent unauthorized use of used containers. Waste

management should be in full compliance with federal, state, and local laws.

Other The transportation, storage, treatment and disposal of RCRA waste material must be

conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.





SECTION 14 TRANSPORT INFORMATION

Land Transport (DOT): Not Regulated **Proper Shipping Name:** Not Regulated Not determined. Land Transport (TDG): **Proper Shipping Name:** Not applicable. Sea Transport (IMDG): Not determined. Not applicable. **Proper Shipping Name:** Not determined. Air Transport (IATA): **Proper Shipping Name:** Not applicable. Other: Not applicable.

SECTION 15 REGULATORY INFORMATION

Federal Regulation

Clean water act/oil: No components of this product are listed.

TSCA: All components of this material are listed in the U.S. TSCA Inventory.

Other TSCA: Not applicable.

SARA title III: Section 302/304 extremely hazardous substances:

None.

Section 311, 312 hazard categorization:

Acute (immediate health effects): YES
Chronic (delayed health effects): NO
Fire (hazard): NO
Reactivity (hazard): NO
Pressure (sudden release hazard): NO

Section 313 toxic chemicals:

No components present are at or greater than the de minimis (minimum reportable)

concentration requirements for reporting.

CERCLA: For stationary/moving sources – reportable quantity (due to):

Not regulated.

State Regulations

Right-to-know Not determined.

Other:

A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). However, releases

may be reportable to the Nation Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in substantial

civil and criminal penalties.

Recommend contacting the local authorities in the event of any type of spill to determine

local reporting requirements and also to aid in the cleanup.



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SECTION 16	OTHER INFORMATION		
	NFPA 704	NPCA-HMIS	KEY
HEALTH:	2	2	0 = Minimal
FIRE:	0	0	1 = Slight
REACTIVITY:	0	0	2 = Moderate
SPECIFIC HAZARD:	None	N/A	3 = Serious
PROTECTION INDEX:	N/A	В	4 = Severe

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Revisions / Comments: None.

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Version: