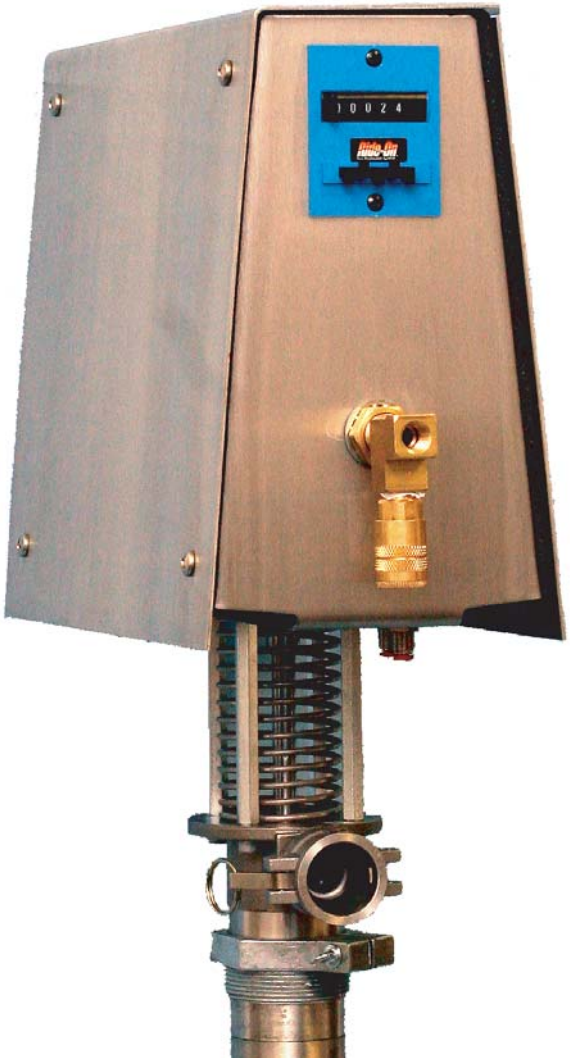
Ride-On® Tire Protection System

ROTIS™ Pump

Ride-On Tire Injection System

DOSAGE TABLE & INSTALLATION GUIDE



Version 14.1 – July 2008

www.ride-on.com
888-374-3366 703-421-9778

Manufactured and assembled in the USA.
Patent pending.

Ride-On Tire Protection System (TPS)
ROTIS Pump Dosage Table

INTRODUCTION:

This latest version of Inovex Industries' Ride-On Tire Protection System (TPS) Dosage Tables has been produced to aid in the installation of Ride-On TPS by our dealers and customers. We believe that you will find that these are the most comprehensive and complete tire sealant dosage tables yet produced. The use of these tables is simple, with the tires being classified according to the tire industry standards (The Tire & Rim Association). The tires have been listed according to increasing rim diameter:

WHAT'S NEW:
Complete Tire Listing

Inovex Industries strives to provide the most complete and comprehensive Dosage Tables on the market. Our engineers are constantly updating our tables, adding new tire sizes and adjusting the dosages to ensure optimum performance. Please contact us at (703) 421-9778, or toll free at 1-888-374-3366 (USA only) should you find a commercially available tire that is not listed in our tables. Our engineers will be happy to assist you in determining the optimum dosage requirements for your applications.

FORMULATIONS:

- Commercial High-Speed (CHS) Formula – For all high-speed vehicles: cars, light trucks, mobile homes, tractors, trailers, roll-offs, street sweepers, buses, delivery trucks, etc. The CHS formula offers protection against flats from objects up to ¼" (6.4 mm) in diameter, helps tires run cooler, and acts as a balancing compound. The CHS formula is ideal for any fleet that would like to improve its pressure maintenance program, ensure that their tires wear more evenly, minimize downtime, and maximize the life of their tires.
- Heavy Duty Off-Road (HD OTR) Formula – Available for off-the-road commercial and industrial vehicles (operating speed less than 30 MPH / 50 Km/H). This industrial strength formula can seal punctures up to 1/2" in diameter in the tread area. Ride-On TPS Off-Road provides extra protection for severe service, and is ideal for all off-road equipment, farm tractors, forklifts, backhoes, construction equipment, mining and logging equipment, bobcats, etc.
- Tire Conditioner & Sealant – Designed to condition casings and help reduce rim corrosion and scale buildup for off-road and agricultural tires. This specially formulated Tire Conditioner and Sealant reduces porosity air loss, helping tires run cooler and extending overall tire life. It also helps seal bead leaks and tread punctures from objects up to ¼" (6.4 mm) in diameter. Ride-On Tire Conditioner and Sealant lowers labor costs by helping with mounting and demounting of off-road and agricultural tires.
- Tire Conditioner & Ballast - Designed to condition casings and help reduce rim corrosion and scale buildup for off-road and agricultural tires. Ride-On Tire Conditioner &Ballast lowers labor costs by helping with mounting and demounting of off-road and agricultural tires.

- Auto and SUV Formula – Exclusively manufactured for passenger and light trucks. The Ride-On Auto formula is the only known product in the world capable of being balanced on dynamic spin balancers. The Auto formula offers excellent protection for cars and light trucks against punctures from objects up to 1/4" (6.4 mm) in diameter.
- ATV Formula – The ATV Formula is ideal for all ATV, UTV, industrial, and other off-road applications. This formula is a cross between our CHS and our HDOTR formulas.
- Motorcycle Formula – A high-speed formulation for motorcycles, dirt bikes and scooters.
- Ride-On TPS for Bikes (Bike-On™) – Designed especially for bicycles.

REGULAR DUTY & SEVERE DUTY:

Our Dosage Tables include columns for Regular Duty and Severe Duty dosages. The Regular Duty dosages are prescribed for vehicles operating in normal conditions, i.e., vehicles used in non-extreme or mostly on-road environments. The Severe Duty dosages are recommended if a vehicle is expected to encounter a large number of puncturing objects, i.e., construction vehicles, vehicles operating in landfills, street sweepers, etc.

For vehicles in dual use – highway and off-road conditions (i.e. trash hauler delivering to landfills), the Severe Duty dosage is recommended. The Regular Duty dosages are recommended for vehicles designed to operate at high speeds where tire balance is an issue. When tire balance is not a concern, the Severe Duty dosages are recommended.

TUBE TIRES:

The Ride-On Tire Protection System is designed to work in tube and tubeless applications. For tube passenger car and light truck tires (designated LT), it is recommended that you use the Severe dosage. For example, for a P235/75 15 tire, use 15 ounces of the Commercial High-Speed formulation. The Passenger & Light Truck formula is not recommended for tube tires.

Identifying Tires Containing Ride-On

Always identify the tires that contain Ride-On to prevent double treatment. You can mark the tires by using a permanent tire marker, by spray-painting valve stems, or by using Ride-On's special vehicle stickers or o-rings (available through your Ride-On dealer).

Troubleshooting

Air pressure, vehicle weight and centrifugal force are all needed for Ride-On to work effectively. When a puncture does not seal properly, check for the following:

1) Lack of sufficient amount of Ride-On TPS;
2) Puncturing object is outside of the coverage area;
3) Rips, tears, or belt/cord damage, Tread separation, Valve leaks, sidewall puncture;
4) Oily or lubricated puncturing object;
5) Object too small (i.e. a needle or finishing nail) – Enlarge hole with a reamer or larger object.
6) Puncturing object larger than what the sealant is designed to seal;
7) Contamination of Ride-On inside of the tire due to excessively wet air source and/or contaminants inside tire;
8) Puncturing object has been in tire for a long time. If an object has been in a tire for a long time, the rubber takes the shape of the object. This occurs because rubber loses elasticity, and when the object is removed, an open hole remains instead of a closed injury. This is one reason why it is so important to check tires regularly for puncturing objects. To help seal such a

puncture, re-air tire and drive until tire warms up. This will aid in the tire regaining elasticity. The re-airing/driving process may need to be repeated up to three times.

9) Was the vehicle driven (minimum 3 miles for on-the-road vehicles) once the object was removed? If the vehicle is not driven immediately, the tire may lose air pressure and the puncture may not seal properly.
10) Was Ride-On used as an after-the-fact repair? Ride-On TPS is designed to be used as a preventative, and is not recommended for use in applications where the tire has been punctured. If Ride-On is added to a tire after an object has already punctured the tire:
    a. Object Still in Tire: DO NOT REMOVE OBJECT! If the object is still lodged in the tire, pump the severe dosage requirement of Ride-On into the tire. Drive the vehicle for a minimum of 5-7 miles to ensure complete distribution of product. Remove object and drive the vehicle at least 2-3 more miles. Make sure to re-air the tire as necessary to avoid driving on a flat tire. The re-airing/driving process may need to be repeated up to 3 times before the puncture is sealed.
    b. If the object is no longer in the tire: Pump the severe dosage requirement of Ride-On into the tire. Drive the vehicle for a minimum of 5-7 miles to ensure complete distribution of product. Re-air tire and drive until tire warms up. This will aid in the tire regaining its elasticity. The re-airing/driving process may need to be repeated up to 3 times before the puncture is sealed.

Vibration and Other Ride Disturbances

It is important to recognize that not all vehicle vibrations are related to tire balance. The following are some of the reasons that a tire may be vibrating in an up-and-down direction: 1) out-of-round tires or wheels; 2) flat spots on tires; 3) worn shock absorbers, struts, ball joints, kingpins; 4) shifted tire belts; 5) mismounted tire/wheel assembly; 6) excessive tire/wheel assembly run-out. If the tire is vibrating from side-to-side (wobbling), look for the following potential causes: 1) bent wheels; 2) bent axles; 3) improper wheel installation; 4) loose or damaged wheel bearings; 5) loose front end components.

If the Severe Duty dosages or the Off-Road Formula is used, you may experience some vibration in high-speed vehicles.

Precautions, Handling, Spill & Waste Disposal

Use absorbent material to soak up small spills. Dispose of waste material in accordance with local, state and federal regulations. Maintain good shopkeeping practices. When working with pressurized air sources, ALWAYS WEAR SAFETY GLASSES. KEEP THIS PRODUCT OUT OF THE REACH OF CHILDREN. Ride-On TPS contains ethylene glycol. If ingested, consult a physician immediately. For further guidance, refer to Material Safety Data Sheet (MSDS) at the back of this manual.

ROTIS PUMP Limited Warranty Information

1 Year Limited Warranty

Inovex Industries, Inc. warrants that pumps and other products of its manufacture are free from all factory defects in material and workmanship for a period of 1 year from the date of purchase (unless otherwise noted). The date of purchase shall be determined by a dated sales receipt/invoice. For warranty work on the pump, a dated sales receipt noting the model and serial number of the pump is required. The dated sales receipt must accompany the returned pump. Inovex Industries' obligation under this Warranty shall be limited to the repair or replacement of any

parts found to be defective, provided the part or assembly is returned freight prepaid to Inovex Industries, Inc. or its authorized service center, and provided that none of the following warranty-voiding characteristics are evident: The Inovex Industries, Inc. shall not be liable under this Warranty if the pump has not been properly installed; if it has been disassembled, modified, abused or tampered with; if the hose assembly has been damaged or improperly spliced; if the pump discharge has been reduced in size; if the pump has been used to pump liquids other than Ride-On TPS sealants; or if the label bearing the serial number has been removed. Inovex Industries, Inc. shall not be liable for any loss, damage or expenses resulting from installation or use of its products, or for consequential damages, including costs of removal, reinstallation or transportation. **There is no other express warranty. All implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one year from the date of purchase.** This Warranty contains the exclusive remedy of the purchaser, and, where permitted, liability for consequential or incidental damages under any and all warranties are excluded.

Installation of Ride-On TPS Using ROTIS Pump

The ROTIS pump is shipped in two boxes. One box contains the hose, tools, dosage table, and a 55-gallon drum bung adapter. The second box contains the ROTIS pump housing. Please make sure you have all the parts before commencing the setup of the pump.

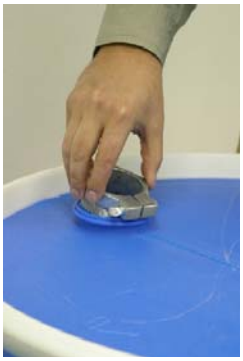
Always wear eye protection when working with pressurized tires!

WARNING: the ROTIS pump has an internal preset regulator that reduces the air pressure to the appropriate pressure for the safe operation of the pump. Tampering with the regulator may cause damage to the pump and will void the warranty. The system inlet pressure (pre-regulator) may be up to **180 psi max**.

INITIAL PUMP SETUP

1. Remove bung cap with NPT fine-thread (does not have valve fitting). Screw the bung adapter into the bung opening. Insert the pump shaft into the center of the bung adapter and push it all the way down into the 55-gallon drum. Tighten the setscrew on the adapter to keep the pump in place.

   WARNING: Please make sure to transfer the bung adapter from an emptied drum to the next drum. The pump will not sit in the 55-gallon drum correctly without the adapter. If the adapter is lost or misplaced, please call Inovex for pricing on a replacement adapter (1-888-374-3366).



2. Locate the end of the black ¾ - inch hose with a Cam-Lock nipple. Pull the 2 Cam-Lock ears on the pump discharge port all the way forward and remove the 2 locking pins from the ears.

   Insert the nipple end of the hose into the Cam-Lock attachment on the pump and push the 2 ears all the way back (it may take some effort) against the pump to lock the hose in place. Insert the locking pins (if supplied) through the holes on the Cam-Lock fitting to lock the hose in place.

3. Look under the pump's housing and locate the 2 color coded bulkhead hose connections. There are 2 color markers (yellow and black) next to the hose connections. Insert the yellow hose into the bulkhead fitting that has been marked with the yellow dot, and the black hose into the one that is marked with a black dot. Push the hose all the way in and test that it has locked into place by tugging on the hose to make sure that it does not slip out.

   The small air hoses can be detached from the pump by first pushing in the orange collar on the fitting all the way in, and then gently pulling the hoses out. **WARNING:** <u>You can damage the fittings and the hoses If you pull the dual air line hoses out of the orange fittings without first pushing the orange collars in.</u>

4. This ROTIS pump is supplied with an air hose to aid and speed up the re-inflation of the tires after the installation of the Ride-On sealants. Please install an appropriate air chuck/tool of your choice on the free end of the hose (the opposite end from where the hose connects to the pump). This tool must have a valve in it to prevent air loss.

5. Once you have installed the tool onto the hose, insert the nipple at the pump end into the coupling on the pump.

6. Insert the supplied strait tool into the hydraulic coupling in the discharge end of the hose. Open the ball valve and insert the tip of the hose into the second bung opening of the drum.

7. Select an appropriate nipple or coupling that matches your shop air system (not provided). Screw the nipple/coupling into the brass opening in the front of the pump. Please use Teflon tape to insure that the attachment is airtight. Connect shop air system to this coupling and check for any air leaks.

   Press the counter reset button (large button on the same level as the digits of the counter) if you hear any air leaks form inside the pump housing. This should stop any further leaks inside the housing. Make sure that the 5/32 yellow/black dual hoses installed in step 3 do not leak. If there is any air loss, the hoses are not inserted adequately into the fittings. Push the hoses in to make sure they lock.

PRIMING THE ROTIS PUMP PRIOR TO INSTALLATION

8. Press and hold down the reset button on the counter and using the smaller digit buttons (one button under each digit on the counter) set the counter to 50.

9. While holding on to the other end of the hose (with its tip in the other bung opening) press the remote reset button (you must press and hold the button for a minimum of 1 second for it to reset). This will start and prime the pump.

   Allow the pump to count down and automatically shut-off when the counter reaches zero. If the discharge hose has not filled with product (sealant pumping from the discharge), press the **Remote Counter Reset Button** one more time and allow one more cycle.

10. Once the pump has been primed and the hose is full of sealant, close the ball valve at the end of the hose.

    The ROTIS pump is now properly installed and ready for operation.

    The speed at which the ROTIS pump will inject Ride-On TPS into the tire depends on the pressure of the tire. The higher the pressure, the slower the installation will be. It is normal for the pump to take approximately 30-40 seconds to inject 40-ounces of sealant into a tire that is at 100 psi.

11. Using the supplied dosage table, locate the tire size that you want to install sealant into. Please note that there are **3 different counter settings** for **Regular** and **Severe** applications **depending on the starting pressure of the tire** (0 psi, 50 psi, and 100 psi).

    0 psi – for tires that have not been aired up.
    50 psi – for tires that are mounted and pressurized **up to 50 psi**.
    100 psi – for tires that are mounted and are pressurized **above 50 psi**.

Example: 11-22.5 requires 40 oz. for Regular and 50 oz. for Severe. The counter should be set at:

	Regular	Severe
tire at 0 psi =	13 counter clicks	16 counter clicks
tire up to 50 psi =	14 counter clicks	17 counter clicks
tire from 50 – 110 psi =	16 counter clicks	20 counter clicks

Example: 445/50-22.5 requires 56 oz. for Regular and 70 oz. for Severe. The counter should be set at:

	Regular	Severe
tire at 0 psi =	18 counter clicks	22 counter clicks
tire up to 50 psi =	19 counter clicks	24 counter clicks
tire from 50 – 110 psi =	22 counter clicks	28 counter clicks

12. After finding the correct dosage according to your tire size, pressure and application (Regular or Severe), press and hold down the **Remote Counter Reset Button** on the counter and using the smaller **Digit Buttons** (one button under each digit on the counter) set the counter to the appropriate number.

13. Rotate the tire into which Ride-On is to be installed so that the tire stem is between the 3 and 9 o'clock position (bottom half of the tire). Use a valve core remover tool to unscrew and remove the valve core from the tire valve stem. Quickly attach the tool to the valve stem to prevent any air loss. Open the ball valve and press the **Remote Counter Reset Button** (refer to step 9, above). This will start the pump. Once the correct dosage has been injected, the pump will automatically shut off.

15. Close the Ball Valve, and disconnect the tool from the valve stem. Re-insert the valve core taking care **not to over-tighten the valve core.** Inflate the tire to the vehicle manufacturer's recommended tire inflation pressure using the supplied air line (refer to step 4). Press the Remote Counter Reset Button to reset the counter. Repeat step 13 for installation in new tire.

    CAUTION: Be sure to **close the ball valve** after each installation, otherwise, since the hose is under pressure, several ounces of Ride-On may squirt out of the hose.

MAINTENANCE: Under normal use, the ROTIS pump system requires minimal maintenance. **Drain the filter on a weekly basis (or more frequently if necessary)**, especially if the pump is being used everyday. To drain the filter, press the needle valve on the filter regulator to allow any accumulated moisture to drain out.

Filter Regulator Needle Valve

Always identify the tires that contain Ride-On to prevent double treatment. You can mark the tires using a permanent tire marker, or use Ride-On's o-rings. Alternatively, you can mark the vehicle using Ride-On trailer or tractor stickers.

Please note: It is **NOT necessary** to immediately drive the vehicle. Once the vehicle is driven, Ride-On TPS is evenly dispersed over the entire tread area of the inner surface of the tire. Do not be concerned with any initial vibrations. Until Ride-On TPS has completely coated the inside of your tires, you may experience a slight vibration. To avoid wheel balance problems, it is critical that the correct amount of Ride-On TPS is installed for your tire size.

Ride-On TPS is a stable compound that can be stored in its original closed container for up to 3 years. Please store Ride-On indoors or out of direct sunlight. Once a drum has been opened, it is very important to keep the Ride-On in an airtight environment. This can be accomplished by connecting the quick connect on the pump hose to the drum return spout. If the product is to be stored for prolonged periods (more than four weeks), it is recommended that the pump be rinsed with water and the NPT bung cap retightened on the drum.

ROTIS PUMP CLEANOUT PROCEDURES

If you are not planning to use the ROTIS pump for a period longer than two weeks, we recommend that you clean the ROTIS pump and the ROTIS hose assembly.

The procedure for cleaning the ROTIS pump is as follows (2-man procedure):

a. Fill a clean plastic 55-gallon drum or a 5-gallon plastic pail with approximately 5 gallons of clean water.
b. Carefully remove the ROTIS pump from the sealant barrel. Make sure that you unscrew the stainless steel pump-barrel adapter from the barrel and keep it in a safe place for future use. Also, reseal the sealant barrel by screwing the bung cap back onto the barrel.
c. Place the ROTIS pump into the water-filled barrel or pail. Place the discharge end of the hose into another 5-gallon pail or sink. Set the counter on the pump to 50 clicks, connect the air supply to the pump, actuate the remote reset switch at the discharge end of the hose, and open the ball valve. **(Warning – make sure that someone is holding the pump tightly before pushing the remote reset switch. It is also a good idea to have someone hold the discharge end of the hose, because the wash water will be under a great deal of pressure and can wet a large area before it can be halted.)**
d. Wait until the pump has finished cycling and has stopped. If you run out of water the pump will start to cycle too fast for the counter to count down. In that case, in order to turn off the pump, the air supply must be manually disconnected or shut down.
e. Once the pump has shut down, disconnect the air supply from the pump.
f. Disconnect all four hoses (small yellow and black, the yellow air hose, and the black ¾-inch sealant hose) from the pump. Please note that there will be some water in the 3/4-inch black hose.
g. Pull the pump out of the 55-gallon barrel or pail.
h. Tilt the pump at a 45 degree angle, and while holding tightly, vigorously shake the water out of the pump body. Keep shaking the pump while holding it at a 45 degree angle until no more water comes out. If you have a problem shaking the pump, have someone press the ball check valve at the foot of the pump while another person holds the pump upright.
i. It is also important that the water in the hose is also blown out. The hose can contain more than a gallon of water, and if the water is not removed, it can get into a tire or get re-circulated back into the drum, diluting the sealant.
j. The water is blown out of the ¾-inch black sealant hose by using air from the pump end of the hose. Make sure that the ball valve at the discharge end of the hose is open and pointed in a safe direction. Continue blowing air through the hose until you see no more water exiting.
k. If this is a rental return pump, please allow a minimum of 48 hours for the pumps and hose to dry out before packing them into their respective boxes. If the rental pump is returned without being cleaned, a $50.00 clean-out charge will be assessed.

General Questions

Q: What is Ride-On Tire Protection System?

A: The **Ride-On Tire Protection System (TPS)** is a high-tech tire sealant specially formulated to prevent leaks, seal punctures, and extend tire life. **Ride-On TPS** is designed to seal most punctures in the tread area of the tire caused by nails, screws, thorns, road debris – any perforating object up to 1/4" (6.35 mm) in diameter. **Ride-On TPS** tire sealant also eliminates porosity leaks and reduces the rate of detrimental oxidation inside the tire. **Ride-On TPS** helps your tires maintain proper inflation and run cooler – the result of constant air pressure and heat reduction mean increases in tire life of up to 25% or more (of course, this is critically dependent on how and where you drive your vehicle). Another benefit of using **Ride-On TPS** is that it helps stop slow leaks from the moment they start; helping tires stay properly inflated, and last longer. A vehicle equipped with **Ride-On** tire sealant will benefit from better handling, better fuel economy, longer lasting tires, and most importantly, a safer ride.

Q: Who are some of the users of Ride-On TPS?

A: Inovex Industries takes pride in providing the most advanced tire sealant formulas available on the market. **Ride-On TPS** is the result of more than 11 years of research and rigorous field-testing. It has been tested and used by the military, the US Postal Service, police and fire departments, construction companies, commercial fleets and independent testing laboratories. The **Ride-On TPS** tire sealant has been proven effective in the most demanding situations.

Q: How does Ride-On TPS affect tire life?

A: The **Ride-On TPS** tire sealant can extend the useful life of tires by up to 25% or more. Heat caused by friction, amplified by underinflation, is one of the primary causes of tire failure. As a tire's temperature increases, the rate of oxidation and subsequent polymerization resulting in stiffness and chemical degradation also increase. **Ride-On TPS** also helps eliminate porosity leaks and reduces the rate of detrimental oxidation. **Ride-On TPS** also helps hydrodynamically balance tires, resulting in more uniform tire wear and reduction in vibration – both of which cause heat buildup.

Technical Questions

Q: Does Ride-On Tire Protection System react chemically with tires or wheels?

A: No. **Ride-On TPS** tire sealant is chemically inert, and will not react negatively with tires or wheels. **Ride-On TPS** contains corrosion inhibitors that protect steel, aluminum, yellow metals as well as wheels and tire belts against corrosion. **Ride-On TPS** tire sealant can easily be washed out of tires with water. It will not affect the use of patches or other tire repairs if necessary. **Ride-On TPS** actually helps preserve tire casings, making retreads more effective.

Q: Is Ride-On TPS Hazardous?

A: **Ride-On** TPS is not considered to be a hazardous material as defined by the US EPA and DOT. **Ride-On** TPS is biodegradable, non-flammable, and non-explosive. Please refer to the Material Safety Data Sheet (MSDS) and Environmental Impact Testing Report for more details.

Q: Is the Ride-On TPS water dispersible?

A: Yes. Since there is no chemical bonding of **Ride-On TPS** tire sealant to the tire, it can be easily washed out of a tire with water. In fact, **Ride-On TPS** is more than 95% water-soluble. This is particularly important to our fleet and commercial clients that wish to retread their tire casings. **Ride-On TPS** contains ethylene glycol, which is commonly used in antifreeze and in cooling and heating systems. Good industrial hygiene work practices should be used when installing or removing **Ride-On** (Please refer to the Material Safety Data Sheet). Please refer to your federal, state, or local regulations for disposing or recycling of glycol-based products.

Q: What if we install in wheels that are rusted?

A: Ride-On should be installed in rims that are in good condition or refurbished by powder coating. Otherwise, Ride-On will bind to any rusted surface to prevent the rust from spreading. However, this rust will also contaminate the product and cause it to break down and become less effective. The color of the product will also change to a reddish hue.

Performance Questions

Q: How does Ride-On Tire Protection System seal a hole in the tread of the tire?

A: As the tire rotates, the tire pressure and centrifugal force draw **Ride-On TPS** to the puncture. As the tire flexes and the hole is expanded, the proprietary formulation containing aramid fibers that are six times stronger than steel enter the puncture cavity. **Ride-On TPS** also contains corrosion inhibitors that protect steel and aluminum wheels and tire belts against rust.

Q: Do nails or other puncturing objects in the tire need to be removed even though the Ride-On TPS has prevented a flat?
A: Yes. Although the **Ride-On TPS** has effectively sealed around the penetrating object, if left in the tire, the object will shift around as the tire rotates and will eventually create a larger hole, and can potentially cause further damage to the tire. If the object is a screw, you must unscrew it. Yanking or pulling will tear the rubber and possibly the tire's steel belts. Also, remember that you must drive the vehicle after pulling out the puncturing object. If the puncturing object has been left in the tire for a long time, it might take some time for the puncture cavity to close (rubber has memory, and it conforms to the shape of the puncturing object), and the tire may temporarily lose some air until it is sealed.

Q: Will Ride-On TPS seal a puncture in the sidewall of the tire?
A: No. **Ride-On TPS** is not recommended for fixing sidewall damage. A puncture in the sidewall of a tire treated with Ride-On will likely continue to leak air. No sealant can effectively seal sidewall punctures, regardless of what some manufacturers may claim. Inspect your tires regularly. In case of a cut, impact break, bruise, sidewall damage or continued air loss, have the tire inspected by a professional tire care specialist. Check your tire pressure per your tire manufacturer's recommendations when the tires are cold.

Q: Does the vehicle need to be driven after a penetrating object has been removed?
A: Yes. **Ride-On TPS** coats the inner surface of the tire. As the tire rotates, the tire pressure and centrifugal force push **Ride-On TPS** to the puncture. As the tire flexes and the hole expands, the fibers enter the puncture cavity. The fibers form a flexible plug similar in action to that of a beaver dam. If the vehicle is not driven, there will not be any centrifugal force or tire flexing to aid **Ride-On TPS** to enter and seal the puncture cavity.

Q: What is the effectiveness and coverage area of Ride-On TPS?
A: **Ride-On TPS** covers crown of the tire. **Ride-On TPS** will not cover the outside 1/2" to 1" of a tire closest to the shoulder areas. This area of a tire is outside of the belt package and is a flex point. Tire manufacturers do not recommended using conventional repairs to fix punctures in these areas. You should have the tire inspected by a professional to determine if a conventional plug and patch repair or a section repair is necessary. For further information refer to your tire manufacturer's repair manual (i.e., Goodyear's Radial Truck Tire and Retread Service Manual). Using **Ride-On TPS** does not guarantee that you will never get any flat tires. Our effectiveness in sealing punctures in the crown of the tire is 85-95% in tubeless tires, and 55-65% in tube tires. Tubes have a tendency to tear or rupture when punctured.

Q: Can Ride-On TPS be used in a tube tire?
A: Yes. **Ride-On TPS** has been proven effective for sealing punctures from objects up to 1/8" diameter that penetrate the tubes. However, since puncturing objects sometimes tear the tube, there may be occasions that the tube will continue to leak. It is vital to remove the puncturing object immediately from a tire containing a tube to prevent further damage to the tube.

Q: How many punctures can a single treatment of Ride-On TPS seal?
A: **Ride-On TPS** will seal multiple punctures that penetrate the crown area of the tire. The number of punctures that can be sealed cannot be predetermined as factors such as the tire size and age, tread pattern, puncture size, tire air pressure, tire temperature, and vehicle speed can affect the results.

Q: What about using Plugs or Patches to fix flat tires?
A: A plug by itself is an unacceptable repair. The repair material used – for example, a "combination patch and plug" repair – must seal the inner liner and fill the injury to be considered a permanent repair. Never use a tube in a tubeless tire as a substitute for a proper repair. **Ride-On TPS** repairs punctures for the life of the tire because it seals the puncture cavity from inside to the outside. Ride-On TPS will not interfere with the use of conventional plugs and patches in tires.

Warranty & Insurance Questions

Q: Is Ride-On Tire Protection System tire sealant covered by product liability insurance?
A: Yes. **Ride-On TPS** has product liability insurance with the Hartford Group.

Q: How does Ride-On TPS affect the tire manufacturer's warranty?
A: **Ride-On TPS** is an inert tire sealant that does not attack or damage tires or wheels. **Ride-On TPS** contains corrosion inhibitors to help protect steel or aluminum wheels and tire belts from rust. **Ride-On TPS** has obtained letters from Bridgestone, Firestone, Continental, General Tire, Yokohama, Michelin, Goodyear and Toyo Tires stating that the use of **Ride-On TPS** does not void their warranties, unless the damage to the tire or wheel has been caused by the sealant.

Q: What Warranty does Ride-On TPS offer to its customers?
A: Inovex Industries, Inc. warrants **Ride-On** TPS to be free from manufacturing defects. The Company shall not be liable for any consequential or other damage or remedy. The Company's sole obligation and your exclusive remedy are limited to product replacement.

Inovex Industries, Inc. expressly disclaims all other warranties and/or conditions, whether express or implied, including but not limited to the implied warranties and conditions of merchantability, satisfactory quality, and fitness for a particular purpose. Inovex Industries shall not under any circumstance be liable for towing expenses, tire repair or replacement expenses, or for any claims or damages, including any special, incidental, or consequential damages, or any damage to tires wheels, vehicles, drivers, passengers, or any other entities or property arising from operating a vehicle, failing to inspect or maintain tires properly, or failing to follow instructions for the proper handling of punctures and other damage to tires.

Installation Questions

Q: How often should the wheel balance be checked?
A: **Ride-On** TPS is designed to hydrodynamically balance tire/wheel assemblies, thus reducing tire imbalance and vibrations. These vibrations increase the tire's operating temperature and promote irregular tread wear. This feature is especially useful for fleets that do not balance the tires on their Class 3-8 vehicles and trailers. Many trucking fleets are switching from conventional tire balancing powders to **Ride-On** TPS to help them balance their truck tires and to help them with their pressure maintenance programs. Our long haul customers have reported tire life improvements of up to 25% or more.

Q: Can Ride-On TPS be used only in new tires?
A: No. **Ride-On TPS** can be used in new and old tires.

Q: Can Ride-On TPS plug the tire valve as it is being inserted?
A: Very Rarely. Sometimes when **Ride-On TPS** is being pumped into the tire, the fibers used to seal punctures, will enter the valve stem opening in such a manner as to create a blockage. If this occurs, remove the connector of the pump from the valve stem, and inject a short burst of air to clear the tire stem passageway, then reattach the hose connector and continue pumping. A paper clip or similar object can also be used to help clear the valve stem.

Q: Can Ride-On TPS plug the tire valve when the tire pressure is being checked?
A: When the proper dosage of **Ride-On** TPS is installed, almost never. The centrifugal force of the rotating tire forces **Ride-On** away from the valve stem and unto the tire. However, in the rare occasion when some **Ride-On** TPS gets into the valve, it is recommended that a short burst of air be injected into the tire to clear any sealant coating the inner surface of the valve stem. Ride-On is compatible with most TPMS systems.

Q: Does a tire need to be completely deflated prior to using the Hand Pump to install Ride-On TPS?
A: No. The hand pump can pump against tire pressures as high as 60 psi, but it is recommended to reduce the pressure to as low as possible**.**

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
1	2.80-4	HDOTR	5	2	2	2	8
2	9X3.50-4	HDOTR	5	2	2	2	8
3	4.10-4	HDOTR	8	3	3	3	12
4	11X4.00-4	HDOTR	8	3	3	3	12
5	12X5.00-4	HDOTR	9	3	3	4	14
6							
7	3.40-5	HDOTR	7	2	2	3	11
8	3.40/3.00-5	HDOTR	7	2	2	3	11
9	4.10-5	HDOTR	9	3	3	4	14
10	11X4.00-5	HDOTR	8	3	3	3	12
11	11X6.00-5	HDOTR	10	3	3	4	15
12							
13	4.00-6	HDOTR	8	3	3	3	12
14	4.10-6	HDOTR	9	3	3	4	14
15	4.10/3.50-6	HDOTR	9	3	3	4	14
16	5.30/4.50-6	HDOTR	12	4	4	5	18
17	5.30-6	HDOTR	14	4	5	6	21
18	8.00-6	HDOTR	20	6	7	8	30
19	13X5.00-6	HDOTR	11	3	4	4	17
20	13X6.00-6	HDOTR	15	5	5	6	23
21	13X6.50-6	HDOTR	15	5	5	6	23
22	14X4.50-6	HDOTR	10	3	3	4	15
23	14X8-6	HDOTR	21	7	7	8	32
24	15X5.00-6	HDOTR	12	4	4	5	18
25	15X6.00-6	HDOTR	16	5	6	6	24
26	15X6.50-6	HDOTR	8	3	3	3	12
27	15X7-6 ATV	ATV/HDOTR	9	3	3	4	14
28	145/70-6	HDOTR	7	2	2	3	11
29							
30	16X8-7 ATV	ATV/HDOTR	9	3	3	4	14
31	17X7-7 ATV	ATV/HDOTR	10	3	3	4	15
32	18X8-7 ATV	ATV/HDOTR	12	4	4	5	18
33							
34	4.00-8	HDOTR	13	4	4	5	20
35	4.80-8	CHS/AUTO	6	2	2	2	8
36	4.80/4.00-8	CHS/AUTO	5	2	2	2	6
37	4.80/440-8 TR	CHS/AUTO	4	1	1	2	5
38	5.00-8	HDOTR	18	6	6	7	27
39	5.30-8	HDOTR	18	6	6	7	27
40	5.70-8	CHS/AUTO	8	3	3	3	10
41	5.70-8	HDOTR	20	6	7	8	30
42	16X5.50-8	HDOTR	17	5	6	7	26
43	16X6-8	HDOTR	15	5	5	6	23
44	16X6.50-8	HDOTR	16	5	6	6	24
45	16.5X6.50-8	HDOTR	19	6	7	8	29
46	16X7.50-8	HDOTR	22	7	8	9	33
47	18X6.50-8	HDOTR	21	7	7	8	32
48	18X7-8	HDOTR	23	7	8	9	35
49	18X7.50-8	HDOTR	21	7	7	8	32
50	18X8.50-8	HDOTR	23	7	8	9	35
51	18X9-8	HDOTR	31	10	11	12	47
52	18X9.50-8	HDOTR	31	10	11	12	47
53	18X10-8 ATV	ATV/HDOTR	16	5	6	6	24
54	18X11-8 ATV	ATV/HDOTR	17	5	6	7	26
55	18.5X8.50-8	HDOTR	28	9	10	11	42
56	19X7-8	HDOTR	20	6	7	8	30
57	19X8-8 ATV	ATV/HDOTR	13	4	4	5	20
58	19X9-8 ATV	ATV/HDOTR	15	5	5	6	23

Version 14.1, July 2008

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
59	19X9.50-8	HDOTR	33	10	11	13	50
60	20X7-8 ATV	ATV/HDOTR	12	4	4	5	18
61	20X8.00-8	HDOTR	15	5	5	6	23
62	20X9-8 ATV	ATV/HDOTR	16	5	6	6	24
63	20X10-8 ATV	ATV/HDOTR	21	7	7	8	32
64	20X11-8 ATV	ATV/HDOTR	19	6	7	8	29
65	21X9-8 ATV	ATV/HDOTR	16	5	6	6	24
66	21X10-8 ATV	ATV/HDOTR	18	6	6	7	27
67	21X11-8 ATV	ATV/HDOTR	20	6	7	8	30
68	21X11.00-8	HDOTR	36	11	12	14	54
69	21X12-8 ATV	ATV/HDOTR	22	7	8	9	33
70	22X9-8 ATV	ATV/HDOTR	17	5	6	7	26
71	22X10-8 ATV	ATV/HDOTR	21	7	7	8	32
72	22X10.00-8	HDOTR	39	12	13	16	59
73	22X11-8 ATV	ATV/HDOTR	21	7	7	8	32
74	22X11.00-8	HDOTR	38	12	13	15	57
75	22X12-8	HDOTR	17	5	6	7	26
76	22.5X10.00-8	HDOTR	34	11	12	14	51
77	23X10-8 ATV	ATV/HDOTR	20	6	7	8	30
78							
79	4.00-9	HDOTR	12	4	4	5	18
80	5.30-9	HDOTR	19	6	7	8	29
81	6.00-9	HDOTR	25	8	9	10	38
82	6.90-9	HDOTR	28	9	10	11	42
83	18X11-9 ATV	ATV/HDOTR	17	5	6	7	26
84	20X7-9 ATV	ATV/HDOTR	12	4	4	5	18
85	20X10-9 ATV	ATV/HDOTR	18	6	6	7	27
86	20X11-9 ATV	ATV/HDOTR	19	6	7	8	29
87	21X8-9 ATV	ATV/HDOTR	17	5	6	7	26
88	21X9-9 ATV	ATV/HDOTR	20	6	7	8	30
89	21X11-9 ATV	ATV/HDOTR	19	6	7	8	29
90	22X7-9 ATV	ATV/HDOTR	13	4	4	5	20
91	22X8-9	HDOTR	14	4	5	6	21
92	22X10-9 ATV	ATV/HDOTR	19	6	7	8	29
93	22X11-9 ATV	ATV/HDOTR	21	7	7	8	32
94	23X11-9 ATV	ATV/HDOTR	21	7	7	8	32
95	24X13-9 ATV	ATV/HDOTR	27	8	9	11	41
96	25X11-9 ATV	ATV/HDOTR	24	8	8	10	36
97	25X12-9 ATV	ATV/HDOTR	26	8	9	10	39
98	25X13-9	HDOTR	27	8	9	11	41
99							
100	6.50-10	HDOTR	31	10	11	12	47
101	7.50-10	HDOTR	38	12	13	15	57
102	9.00-10	HDOTR	48	15	17	19	72
103	15L-10	HDOTR	76	24	26	30	114
104	205/50-10	HDOTR	23	7	8	9	35
105	18X8.00-10	HDOTR	22	7	8	9	33
106	18X8.50-10	HDOTR	24	8	8	10	36
107	18X9.50-10	HDOTR	25	8	9	10	38
108	18X10-10 ATV	ATV/HDOTR	16	5	6	6	24
109	18X10.50-10	HDOTR	16	5	6	6	24
110	18X11-10 ATV	ATV/HDOTR	17	5	6	7	26
111	19X6-10 ATV	ATV/HDOTR	10	3	3	4	15
112	20X7-10 ATV	ATV/HDOTR	12	4	4	5	18
113	20X7.50-10	HDOTR	27	8	9	11	41
114	20X8-10 ATV	ATV/HDOTR	14	4	5	6	21
115	20X10-10 ATV	ATV/HDOTR	20	6	7	8	30
116	20X11-10 ATV	ATV/HDOTR	19	6	7	8	29

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
117	20X12.00-10	HDOTR	37	12	13	15	56
118	20.5X8.0-10	HDOTR	30	9	10	12	45
119	21X7-10 ATV	ATV/HDOTR	15	5	5	6	23
120	21X8-10 ATV	ATV/HDOTR	16	5	6	6	24
121	21X9-10	HDOTR	15	5	5	6	23
122	21X10-10 ATV	ATV/HDOTR	19	6	7	8	29
123	21X11.00-10	HDOTR	19	6	7	8	29
124	22X7-10 ATV	ATV/HDOTR	13	4	4	5	20
125	22X8-10 ATV	ATV/HDOTR	16	5	6	6	24
126	22X8.00-10	HDOTR	28	9	10	11	42
127	22X9-10 ATV	ATV/HDOTR	17	5	6	7	26
128	22X9.50-10	HDOTR	18	6	6	7	27
129	22X10-10 ATV	ATV/HDOTR	19	6	7	8	29
130	22X11-10 ATV	ATV/HDOTR	21	7	7	8	32
131	22X11.00-10	HDOTR	38	12	13	15	57
132	23X7-10 ATV	ATV/HDOTR	14	4	5	6	21
133	23X8-10 ATV	ATV/HDOTR	19	6	7	8	29
134	23X9-10 ATV	ATV/HDOTR	21	7	7	8	32
135	23X10-10	HDOTR	19	6	7	8	29
136	24X9.50-10	HDOTR	21	7	7	8	32
137	24X10.50-10	HDOTR	23	7	8	9	35
138	24X11.00-10	HDOTR	42	13	14	17	63
139	24X11.5-10	HDOTR	43	13	15	17	65
140	24X12.00-10	HDOTR	45	14	16	18	68
141	25X8-10 ATV	ATV/HDOTR	17	5	6	7	26
142	25X11-10 ATV	ATV/HDOTR	23	7	8	9	35
143	25X12-10 ATV	ATV/HDOTR	26	8	9	10	39
144	27X9-10	HDOTR	47	15	16	19	71
145	27X15-10	HDOTR	76	24	26	30	114
146							
147	22X7-11 ATV	ATV/HDOTR	12	4	4	5	18
148	23X8-11 ATV	ATV/HDOTR	16	5	6	6	24
149	23X9-11 ATV	ATV/HDOTR	17	5	6	7	26
150	23.5X8-11 ATV	ATV/HDOTR	15	5	5	6	23
151	24X8-11 ATV	ATV/HDOTR	17	5	6	7	26
152	24X9-11 ATV	ATV/HDOTR	19	6	7	8	29
153	24X10-11 ATV	ATV/HDOTR	21	7	7	8	32
154	24.5X8-11 ATV	ATV/HDOTR	17	5	6	7	26
155	25X8-11	HDOTR	17	5	6	7	26
156	25X10-11	HDOTR	23	7	8	9	35
157							
158	4.00-12	HDOTR	17	5	6	7	26
159	4.80-12	CHS/AUTO	7	2	2	3	9
160	4.80-12	HDOTR	18	6	6	7	27
161	5.-12	HDOTR	16	5	6	6	24
162	5.30-12	CHS/MOT	5	2	2	2	8
163	5.30-12	HDOTR	21	7	7	8	32
164	5.70-12	HDOTR	24	8	8	10	36
165	6.-12	HDOTR	21	7	7	8	32
166	7.-12	HDOTR	26	8	9	10	39
167	7.00-12	HDOTR	38	12	13	15	57
168	ST145/R12	CHS/AUTO	8	3	3	3	10
169	145/80 12	CHS/AUTO	8	3	3	3	10
170	155/80 12	CHS/AUTO	9	3	3	4	11
171	205/80-12	HDOTR	30	9	10	12	45
172	165/70 12	CHS/AUTO	9	3	3	4	11
173	255/65-12	HDOTR	37	12	13	15	56
174	270/60-12	HDOTR	41	13	14	16	62

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
175	22X7.50-12	HDOTR	30	9	10	12	45
176	22X9.50-12	HDOTR	30	9	10	12	45
177	23X8-12 ATV	ATV/HDOTR	16	5	6	6	24
178	23X8.50-12	HDOTR	35	11	12	14	53
179	23X9.50-12	HDOTR	39	12	13	16	59
180	23X10-12	HDOTR	43	13	15	17	65
181	23X10-12 ATV	ATV/HDOTR	24	8	8	10	36
182	23X10.50-12	HDOTR	44	14	15	18	66
183	23.5X8.50-12	HDOTR	36	11	12	14	54
184	23.5X11-12	HDOTR	48	15	17	19	72
185	24X8-12	HDOTR	30	9	10	12	45
186	24X9-12	HDOTR	33	10	11	13	50
187	24X9.50-12	HDOTR	36	11	12	14	54
188	24X10.50-12	HDOTR	38	12	13	15	57
189	24X11-12	HDOTR	39	12	13	16	59
190	24X12-12	HDOTR	53	17	18	21	80
191	24X13.00-12	HDOTR	47	15	16	19	71
192	25X8-12 ATV	ATV/HDOTR	17	5	6	7	26
193	25X10-12 ATV	ATV/HDOTR	21	7	7	8	32
194	25X11-12	HDOTR	20	6	7	8	30
195	26x8-12 ATV	ATV/HDOTR	11	3	4	4	17
196	26X10-12	HDOTR	22	7	8	9	33
197	26x10-12 ATV	ATV/HDOTR	13	4	4	5	20
198	26X10.5-12	HDOTR	22	7	8	9	33
199	26x11-12 ATV	HDOTR	25	8	9	10	38
200	26x11-12	CHS/AUTO	19	6	7	8	24
201	26X12.00-12	HDOTR	57	18	20	23	86
202	26.5X14.00-12	HDOTR	60	19	21	24	90
203	27X9-12 ATV	ATV/HDOTR	14	4	5	6	21
204	27X10-12	HDOTR	50	16	17	20	75
205	27X11-12 ATV	ATV/HDOTR	17	5	6	7	26
206	27X12-12 ATV	ATV/HDOTR	18	6	6	7	27
207							
208	6.00-13	HDOTR	28	9	10	11	42
209	6.50-13 TR	CHS/AUTO	11	3	4	4	14
210	A78-13 TR	CHS/AUTO	11	3	4	4	14
211	B78-13 TR	CHS/AUTO	12	4	4	5	15
212	C78-13 TR	CHS/AUTO	12	4	4	5	15
213	145/80 13	CHS/AUTO	8	3	3	3	10
214	155/80 13	CHS/AUTO	9	3	3	4	11
215	155/80 13 TR	CHS/AUTO	9	3	3	4	11
216	165/80 13	CHS/AUTO	10	3	3	4	13
217	175/80 13	CHS/AUTO	11	3	4	4	14
218	175/80 13 TR	CHS/AUTO	11	3	4	4	14
219	185/80 13	CHS/AUTO	12	4	4	5	15
220	185/80 13 TR	CHS/AUTO	12	4	4	5	15
221	185/80-13	HDOTR	28	9	10	11	42
222	155/70 13	CHS/AUTO	9	3	3	4	11
223	165/70 13	CHS/AUTO	10	3	3	4	13
224	175/70 13	CHS/AUTO	10	3	3	4	13
225	185/70 13	CHS/AUTO	11	3	4	4	14
226	195/70 13	CHS/AUTO	12	4	4	5	15
227	205/70 13	CHS/AUTO	13	4	4	5	16
228	165/65 13	CHS/AUTO	9	3	3	4	11
229	195/65 13	CHS/AUTO	12	4	4	5	15
230	185/60 13	CHS/AUTO	11	3	4	4	14
231	195/60 13	CHS/AUTO	11	3	4	4	14
232	205/60 13	CHS/AUTO	12	4	4	5	15

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
233	215/60 13	CHS/AUTO	13	4	4	5	16
234	235/60 13	CHS/AUTO	15	5	5	6	19
235	215/50 13	CHS/AUTO	13	4	4	5	16
236	215/50 13	HDOTR	30	9	10	12	45
237	235/50 13	CHS/AUTO	14	4	5	6	18
238	245/50 13	CHS/AUTO	15	5	5	6	19
239							
240	E78-14 TR	CHS/AUTO	14	4	5	6	18
241	F-78-14 TR	CHS/AUTO	14	4	5	6	18
242	G78-14 TR	CHS/AUTO	16	5	6	6	20
243	H78-14 TR	CHS/AUTO	17	5	6	7	21
244	F70-14 TR	CHS/AUTO	15	5	5	6	19
245	H70-14 TR	CHS/AUTO	17	5	6	7	21
246	6.00-14	HDOTR	32	10	11	13	48
247	7.-14	HDOTR	29	9	10	12	44
248	7.50-14	HDOTR	32	10	11	13	48
249	8.5L-14	HDOTR	38	12	13	15	57
250	9.5L-14	HDOTR	43	13	15	17	65
251	11L-14	HDOTR	51	16	18	20	77
252	175/75 14	CHS/AUTO	12	4	4	5	15
253	185/75 14	CHS/AUTO	12	4	4	5	15
254	195/75 14	CHS/AUTO	14	4	5	6	18
255	205/75 14	CHS/AUTO	15	5	5	6	19
256	205/75 14 TR	CHS/AUTO	15	5	5	6	19
257	215/75 14	CHS/AUTO	16	5	6	6	20
258	215/75 14 TR	CHS/AUTO	16	5	6	6	20
259	225/75 14	CHS/AUTO	16	5	6	6	20
260	245/75 14	CHS/AUTO	18	6	6	7	23
261	175/70 14	CHS/AUTO	11	3	4	4	14
262	185/70 14	CHS/AUTO	12	4	4	5	15
263	195/70 14	CHS/AUTO	13	4	4	5	16
264	205/70 14	CHS/AUTO	14	4	5	6	18
265	215/70 14	CHS/AUTO	16	5	6	6	20
266	225/70 14	CHS/AUTO	16	5	6	6	20
267	235/70 14	CHS/AUTO	17	5	6	7	21
268	245/70 14	CHS/AUTO	18	6	6	7	23
269	165/65 14	CHS/AUTO	10	3	3	4	13
270	175/65 14	CHS/AUTO	10	3	3	4	13
271	185/65 14	CHS/AUTO	11	3	4	4	14
272	195/65 14	CHS/AUTO	12	4	4	5	15
273	215/65 14	CHS/AUTO	14	4	5	6	18
274	175/60 14	CHS/AUTO	10	3	3	4	13
275	185/60 14	CHS/AUTO	11	3	4	4	14
276	195/60 14	CHS/AUTO	12	4	4	5	15
277	205/60 14	CHS/AUTO	13	4	4	5	16
278	215/60 14	CHS/AUTO	14	4	5	6	18
279	225/60 14	CHS/AUTO	14	4	5	6	18
280	235/60 14	CHS/AUTO	16	5	6	6	20
281	245/60 14	CHS/AUTO	16	5	6	6	20
282	255/60 14	CHS/AUTO	17	5	6	7	21
283	265/60 14	CHS/AUTO	19	6	7	8	24
284	275/60 14	CHS/AUTO	19	6	7	8	24
285	255/55 14	CHS/AUTO	17	5	6	7	21
286	245/50 14	CHS/AUTO	15	5	5	6	19
287	265/50 14	CHS/AUTO	17	5	6	7	21
288	23X8.50-14	HDOTR	29	9	10	12	36
289	24X8.50-14	HDOTR	38	12	13	15	57
290	25X8.50-14	HDOTR	33	10	11	13	50

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
291	27x8.5-14	CHS/AUTO	16	5	6	6	20
292	27x9Rx14 ATV	ATV/HDOTR	22	7	8	9	28
293	27x11Rx14 ATV	ATV/HDOTR	26	8	9	10	33
294							
295	7-14.5 MH	CHS/AUTO	13	4	4	5	16
296	8-14.5 MH	CHS/AUTO	15	5	5	6	19
297	9-14.5 MH	CHS/AUTO	18	6	6	7	23
298							
299	E78-15 TR	CHS/AUTO	13	4	4	5	16
300	F78-15 TR	CHS/AUTO	15	5	5	6	19
301	G78-15 TR	CHS/AUTO	15	5	5	6	19
302	H78-15 TR	CHS/AUTO	17	5	6	7	21
303	2.5-15	HDOTR	41	13	14	16	62
304	3.00-15	HDOTR	58	18	20	23	87
305	4.00-15	HDOTR	19	6	7	8	29
306	5.00-15	HDOTR	24	8	8	10	36
307	5.70-15	HDOTR	27	8	9	11	41
308	5.90-15	HDOTR	25	8	9	10	38
309	6.00-15	HDOTR	32	10	11	13	48
310	6.40-15	HDOTR	27	8	9	11	41
311	6.70-15	HDOTR	29	9	10	12	44
312	6.70-15 LT	CHS/AUTO	15	5	5	6	19
313	7.00-15	HDOTR	44	14	15	18	66
314	7.00-15 LT	CHS/AUTO	16	5	6	6	20
315	7.50-15	HDOTR	50	16	17	20	75
316	7.50-15	CHS/AUTO	19	6	7	8	24
317	7.60-15	HDOTR	34	11	12	14	51
318	7.75-15	CHS/AUTO	14	4	5	6	18
319	8.25-15	HDOTR	57	18	20	23	86
320	8.25-15	CHS/AUTO	22	7	8	9	28
321	8.55-15	CHS/AUTO	17	5	6	7	21
322	9.00-15	HDOTR	68	21	23	27	102
323	9.00-15	CHS/AUTO	25	8	9	10	31
324	9.5L-15	HDOTR	52	16	18	21	78
325	10.00-15	HDOTR	76	24	26	30	114
326	10.00-15	CHS/AUTO	27	8	9	11	34
327	11.00-15	HDOTR	83	26	29	33	125
328	11.00-15	CHS/AUTO	31	10	11	12	39
329	12.5L-15	HDOTR	63	20	22	25	95
330	14.50-15	HDOTR	95	30	33	38	143
331	250-15	HDOTR	52	16	18	21	78
332	300-15	HDOTR	72	23	25	29	108
333	25X7.50-15	HDOTR	34	11	12	14	51
334	25X10.50-15	HDOTR	41	13	14	16	62
335	25X12.50-15	HDOTR	55	17	19	22	83
336	27X8.50-15	HDOTR	40	13	14	16	60
337	27X9.50-15	HDOTR	44	14	15	18	66
338	27X10.50-15	HDOTR	50	16	17	20	75
339	28X9-15	HDOTR	44	14	15	18	66
340	28X12-15	HDOTR	62	19	21	25	93
341	28X13-15	HDOTR	67	21	23	27	101
342	29X8-15	HDOTR	42	13	14	17	63
343	29x9.5-15 LT	CHS/AUTO	19	6	7	8	24
344	29X12.50-15	HDOTR	64	20	22	26	96
345	29X14.00-15	HDOTR	64	20	22	26	96
346	30X8-15	HDOTR	44	14	15	18	66
347	30x9.5-15 LT	CHS/AUTO	19	6	7	8	24
348	31x10.5-15 LT	CHS/AUTO	22	7	8	9	28

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
349	31x11.5-15 LT	CHS/AUTO	24	8	8	10	30
350	31X12.50-15	HDOTR	69	22	24	28	104
351	31X13.50-15	HDOTR	77	24	27	31	116
352	31X15.50-15	HDOTR	87	27	30	35	131
353	32x11.5-15 LT	CHS/AUTO	25	8	9	10	31
354	32X12-15	HDOTR	72	23	25	29	108
355	32x14-15	CHS/AUTO	30	9	10	12	45
356	32X15-15	HDOTR	86	27	30	34	129
357	33X12.50-15	HDOTR	74	23	26	30	111
358	33x12.5-15 LT	CHS/AUTO	28	9	10	11	35
359	35x12.5-15 LT	CHS/AUTO	31	10	11	12	39
360	35x14-15 LT	CHS/AUTO	31	10	11	12	39
360	35X15-15	HDOTR	95	30	33	38	143
361	36X11-15	HDOTR	73	23	25	29	110
362	36X13.50-15	HDOTR	90	28	31	36	135
363	36x14.5-15 LT	CHS/AUTO	34	11	12	14	43
364	38X16-15	HDOTR	113	35	39	45	170
365	8.5/90 15	HDOTR	46	14	16	18	69
366	195/75 15	CHS/AUTO	14	4	5	6	18
367	205/75 15	CHS/AUTO	14	4	5	6	18
368	205/75 15 LT	CHS/AUTO	15	5	5	6	19
369	215/75 15	CHS/AUTO	16	5	6	6	20
370	225/75 15	CHS/AUTO	18	6	6	7	23
371	225/75 15 TR	CHS/AUTO	18	6	6	7	23
372	235/75 15	CHS/AUTO	18	6	6	7	23
373	245/75 15	CHS/AUTO	19	6	7	8	24
374	255/75 15	CHS/AUTO	21	7	7	8	26
375	265/75 15	CHS/AUTO	22	7	8	9	28
376	185/70 15	CHS/AUTO	12	4	4	5	15
377	195/70 15	CHS/AUTO	13	4	4	5	16
378	205/70 15	CHS/AUTO	14	4	5	6	18
379	215/70 15	CHS/AUTO	15	5	5	6	19
380	215/70-15	HDOTR	35	11	12	14	53
381	225/70 15	CHS/AUTO	16	5	6	6	20
382	235/70 15	CHS/AUTO	17	5	6	7	21
383	245/70 15	CHS/AUTO	19	6	7	8	24
384	255/70 15	CHS/AUTO	20	6	7	8	25
385	265/70 15	CHS/AUTO	22	7	8	9	28
386	285/70 15	CHS/AUTO	24	8	8	10	30
387	315/70 15	CHS/AUTO	28	9	10	11	35
388	185/65 15	CHS/AUTO	12	4	4	5	15
389	195/65 15	CHS/AUTO	13	4	4	5	16
390	205/65 15	CHS/AUTO	14	4	5	6	18
391	215/65 15	CHS/AUTO	15	5	5	6	19
392	225/65 15	CHS/AUTO	14	4	5	6	18
393	235/65 15	CHS/AUTO	17	5	6	7	21
394	255/65 15	CHS/AUTO	19	6	7	8	24
395	260/65-15	HDOTR	43	13	15	17	65
396	185/60 15	CHS/AUTO	12	4	4	5	15
397	195/60 15	CHS/AUTO	13	4	4	5	16
398	205/60 15	CHS/AUTO	13	4	4	5	16
399	215/60 15	CHS/AUTO	14	4	5	6	18
400	225/60 15	CHS/AUTO	15	5	5	6	19
401	235/60 15	CHS/AUTO	16	5	6	6	20
402	245/60 15	CHS/AUTO	17	5	6	7	21
403	255/60 15	CHS/AUTO	18	6	6	7	23
404	265/60 15	CHS/AUTO	19	6	7	8	24
405	275/60 15	CHS/AUTO	20	6	7	8	25

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
406	390/60-15	HDOTR	75	23	26	30	113
407	325/60 15 LT	CHS/AUTO	27	8	9	11	34
408	195/55 15	CHS/AUTO	12	4	4	5	15
409	205/55 15	CHS/AUTO	13	4	4	5	16
410	225/55 15	CHS/AUTO	15	5	5	6	19
411	255/55 15	CHS/AUTO	18	6	6	7	23
412	195/50 15	CHS/AUTO	12	4	4	5	15
413	205/50 15	CHS/AUTO	13	4	4	5	16
414	225/50 15	CHS/AUTO	14	4	5	6	18
415	245/50 15	CHS/AUTO	16	5	6	6	20
416	265/50 15	CHS/AUTO	18	6	6	7	23
417	275/50 15	CHS/AUTO	19	6	7	8	24
418	295/50 15	CHS/AUTO	21	7	7	8	26
419	305/50 15	CHS/AUTO	22	7	8	9	28
420	325/50 15	CHS/AUTO	24	8	8	10	30
421							
422	4.50-16	HDOTR	19	6	7	8	29
423	5.50-16	HDOTR	29	9	10	12	44
424	6.00-16	HDOTR	32	10	11	13	48
425	6.50-16	HDOTR	36	11	12	14	54
426	6.50-16 LT	CHS/AUTO	15	5	5	6	19
427	7.00-16	HDOTR	32	10	11	13	48
428	7.00-16	CHS/AUTO	19	6	7	8	24
429	7.2-16	HDOTR	34	11	12	14	51
430	7.50/8.00-16	HDOTR	43	13	15	17	65
431	7.50-16	HDOTR	51	16	18	20	77
432	7.50-16 LT	CHS/AUTO	19	6	7	8	24
433	8.00-16	HDOTR	47	15	16	19	71
434	8.3-16	HDOTR	41	13	14	16	62
435	9.00-16	HDOTR	48	15	17	19	72
436	9.5-16	HDOTR	49	15	17	20	74
437	10.00-16	HDOTR	68	21	23	27	102
438	11.00-16	HDOTR	84	26	29	34	126
439	11.2-16	HDOTR	66	21	23	26	99
440	12L-16	HDOTR	71	22	24	28	107
441	12.4-16	HDOTR	73	23	25	29	110
442	12.5L-16	HDOTR	65	20	22	26	98
443	13.6-16	HDOTR	81	25	28	32	122
444	325/85 16	CHS/AUTO	33	10	11	13	41
445	215/85 16	CHS/AUTO	18	6	6	7	23
446	235/85 16	CHS/AUTO	20	6	7	8	25
447	255/85 16	CHS/AUTO	23	7	8	9	29
448	155/80 16	CHS/AUTO	11	3	4	4	14
449	325/80 16 LT	CHS/AUTO	31	10	11	12	39
450	80/75 16	HDOTR	10	3	3	4	13
451	185/75 16	CHS/AUTO	13	4	4	5	16
452	195/75 16	CHS/AUTO	14	4	5	6	18
453	225/75 16	CHS/AUTO	18	6	6	7	23
454	235/75 16	CHS/AUTO	18	6	6	7	23
455	245/75 16	CHS/AUTO	20	6	7	8	25
456	265/75 16	CHS/AUTO	23	7	8	9	29
457	285/75 16	CHS/AUTO	25	8	9	10	31
458	315/75 16 LT	CHS/AUTO	28	9	10	11	35
459	235/70 16	CHS/AUTO	19	6	7	8	24
460	240/70 16	HDOTR	43	13	15	17	60
461	245/70 16	CHS/AUTO	19	6	7	8	24
462	255/70 16	CHS/AUTO	21	7	7	8	26
463	265/70 16	CHS/AUTO	22	7	8	9	28

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
464	275/70 16	CHS/AUTO	24	8	8	10	30
465	305/70 16	CHS/AUTO	26	8	9	10	33
466	205/65 16	CHS/AUTO	14	4	5	6	18
467	215/65 16	CHS/AUTO	15	5	5	6	19
468	255/65 16	CHS/AUTO	20	6	7	8	25
469	320/65 16	HDOTR	63	20	22	25	95
470	205/60 16	CHS/AUTO	14	4	5	6	18
471	215/60 16	CHS/AUTO	15	5	5	6	19
472	225/60 16	CHS/AUTO	16	5	6	6	20
473	235/60 16	CHS/AUTO	17	5	6	7	21
474	255/60 16	CHS/AUTO	18	6	6	7	23
475	275/60 16	HDOTR	48	15	17	19	72
476	205/55 16	CHS/AUTO	14	4	5	6	18
477	215/55 16	CHS/AUTO	15	5	5	6	19
478	225/55 16	CHS/AUTO	15	5	5	6	19
479	235/55 16	CHS/AUTO	17	5	6	7	21
480	255/55 16	CHS/AUTO	18	6	6	7	23
481	205/50 16	CHS/AUTO	13	4	4	5	16
482	225/50 16	CHS/AUTO	15	5	5	6	19
483	235/50 16	CHS/AUTO	16	5	6	6	20
484	245/50 16	CHS/AUTO	17	5	6	7	21
485	255/50 16	CHS/AUTO	18	6	6	7	23
486	265/50 16	CHS/AUTO	19	6	7	8	24
487	275/50 16	CHS/AUTO	20	6	7	8	25
488	245/45 16	CHS/AUTO	15	5	5	6	19
489	265/45 16	CHS/AUTO	17	5	6	7	21
490	205/40 16	CHS/AUTO	12	4	4	5	15
491							
492	13.50-16.1	HDOTR	88	28	30	35	132
493	14L-16.1	HDOTR	81	25	28	32	122
494	14L-16.1	HDOTR	97	30	33	39	146
495	14.5/75-16.1	HDOTR	97	30	33	39	146
496	16.5L-16.1	HDOTR	126	39	43	50	189
497	16.5L-16.1	HDOTR	104	33	36	42	156
498	18.4-16.1	HDOTR	118	37	41	47	177
499	19L-16.1	HDOTR	127	40	44	51	191
500	21.5L-16.1	HDOTR	150	47	52	60	225
501	38X20.00-16.1	HDOTR	112	35	39	45	168
502							
503	8.00-16.5 LT	CHS/AUTO	15	5	5	6	19
504	8.75-16.5 LT	CHS/AUTO	17	5	6	7	21
505	9.50-16.5 LT	CHS/AUTO	19	6	7	8	24
506	10-16.5 LT	CHS/AUTO	24	8	8	10	30
507	10-16.5	HDOTR	56	18	19	22	84
508	12-16.5 LT	CHS/AUTO	28	9	10	11	35
509	12-16.5	HDOTR	68	21	23	27	102
510	265/70-16.5	HDOTR	51	16	18	20	77
511	305/70-16.5	HDOTR	63	20	22	25	95
512	330/55-16.5	HDOTR	63	20	22	25	95
513	395/55-16.5	HDOTR	80	25	28	32	120
514	36x15.5x16.5 LT	CHS/AUTO	37	12	13	15	46
515	37x12.5x16.5 LT	CHS/AUTO	30	9	10	12	38
516	38x15.5 16.5 LT	CHS/AUTO	39	12	13	16	49
517							
518	235/80 17 LT	CHS/AUTO	19	6	7	8	24
519	265/75 17	CHS/AUTO	22	7	8	9	28
520	245/75 17 LT	CHS/AUTO	19	6	7	8	24
521	235/70 17	CHS/AUTO	19	6	7	8	24

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
522	245/70 17 LT	CHS/AUTO	19	6	7	8	24
523	265/70 17	CHS/AUTO	22	7	8	9	28
524	285/70 17	CHS/AUTO	24	8	8	10	30
525	315/70 17 LT	CHS/AUTO	30	9	10	12	38
526	275/65 17 LT	CHS/AUTO	22	7	8	9	28
527	265/65 17 LT	CHS/AUTO	21	7	7	8	26
528	255/65 17 LT	CHS/AUTO	20	6	7	8	25
529	245/65 17 LT	CHS/AUTO	19	6	7	8	24
530	235/65 17	CHS/AUTO	18	6	6	7	23
531	215/65 17	CHS/AUTO	16	5	6	6	20
532	305/60 17 LT	CHS/AUTO	25	8	9	10	31
533	285/60 17	CHS/AUTO	23	7	8	9	29
534	275/60 17	CHS/AUTO	22	7	8	9	28
535	225/60 17	CHS/AUTO	16	5	6	6	20
536	205/50 17	CHS/AUTO	13	4	4	5	16
537	215/50 17	CHS/AUTO	14	4	5	6	18
538	235/50 17	CHS/AUTO	16	5	6	6	20
539	255/ 50 17	CHS/AUTO	18	6	6	7	23
540	225/55 17	CHS/AUTO	16	5	6	6	20
541	235/55 17	CHS/AUTO	16	5	6	6	20
542	215/45 17	CHS/AUTO	14	4	5	6	18
543	225/45 17	CHS/AUTO	16	5	6	6	20
544	235/45 17	CHS/AUTO	17	5	6	7	21
545	245/45 17	CHS/AUTO	16	5	6	6	20
546	255/45 17	CHS/AUTO	17	5	6	7	21
547	315/45 17	CHS/AUTO	23	7	8	9	29
548	235/40 17	CHS/AUTO	16	5	6	6	20
549	245/40 17	CHS/AUTO	16	5	6	6	20
550	265/40 17	CHS/AUTO	17	5	6	7	21
551	275/40 17	CHS/AUTO	18	6	6	7	23
552	285/40 17	CHS/AUTO	19	6	7	8	24
553	285/35 17	CHS/AUTO	19	6	7	8	24
554	315/35 17	CHS/AUTO	21	7	7	8	26
555	335/35 17	CHS/AUTO	23	7	8	9	29
556	35x12.50x17 LT	CHS/AUTO	29	9	10	12	36
557	35x13x17 LT	CHS/AUTO	30	9	10	12	38
558	37x12.50x17 LT	CHS/AUTO	30	9	10	12	38
559	37x12.50x17	HDOTR	28	9	10	11	42
560	37x13x17 LT	CHS/AUTO	31	10	11	12	39
561							
562	215/75 17.5 LT	CHS/AUTO	17	5	6	7	21
563	235/75 17.5 TR	CHS/AUTO	19	6	7	8	24
564	245/70 17.5 TR	CHS/AUTO	20	6	7	8	25
565	355/70-17.5	HDOTR	80	25	28	32	120
566	8-17.5 HC	CHS/AUTO	17	5	6	7	21
567	8.5-17.5	CHS/AUTO	16	5	6	6	20
568	9-17.5 HC	CHS/AUTO	20	6	7	8	25
569	9.5-17.5	CHS/AUTO	20	6	7	8	25
570	10-17.5 HC	CHS/AUTO	23	7	8	9	29
571	11-17.5 HC	CHS/AUTO	27	8	9	11	34
572	14-17.5 HC	CHS/AUTO	38	12	13	15	48
573	14-17.5	HDOTR	87	27	30	35	131
574	36X16-17.5	HDOTR	82	26	28	33	123
575							
576	4.00-18	HDOTR	18	6	6	7	27
577	7.50-18	HDOTR	41	13	14	16	62
578	7.50-18	HDOTR	48	15	17	19	72
579	10.5/80-18	HDOTR	62	19	21	25	93

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
580	12.5-18	HDOTR	74	23	26	30	111
581	12.5/80-18	HDOTR	74	23	26	30	111
582	15.0/55-18	HDOTR	83	26	29	33	125
583	275/80 18	HDOTR	62	19	21	25	93
584	335/80 18	HDOTR	82	26	28	33	123
585	275/75 18	CHS/AUTO	24	8	8	10	30
586	275/70 18LT	CHS/AUTO	24	8	8	10	30
587	320/65 18	HDOTR	67	21	23	27	101
588	340/65 18	HDOTR	75	23	26	30	113
589	235/65 18	CHS/AUTO	18	6	6	7	23
590	275/65 18 LT	CHS/AUTO	23	7	8	9	29
591	285/65 18 LT	CHS/AUTO	25	8	9	10	31
592	325/65 18 LT	CHS/AUTO	29	9	10	12	36
593	315/60 18 LT	CHS/AUTO	27	8	9	11	34
594	225/60 18	CHS/AUTO	17	5	6	7	21
595	255/60 18	CHS/AUTO	20	6	7	8	25
596	255/55 18	CHS/AUTO	20	6	7	8	25
597	275/55 18	CHS/AUTO	21	7	7	8	26
598	285/55 18	CHS/AUTO	23	7	8	9	29
599	305/55 18 LT	CHS/AUTO	25	8	9	10	31
600	225/45 18	CHS/AUTO	15	5	5	6	19
601	235/45 18	CHS/AUTO	16	5	6	6	20
602	245/45 18	CHS/AUTO	17	5	6	7	21
603	255/45 18	CHS/AUTO	18	6	6	7	23
604	295/45 18	CHS/AUTO	22	7	8	9	28
605	225/40 18	CHS/AUTO	15	5	5	6	19
606	235/40 18	CHS/AUTO	15	5	5	6	19
607	245/40 18	CHS/AUTO	16	5	6	6	20
608	255/40 18	CHS/AUTO	17	5	6	7	21
609	265/40 18	CHS/AUTO	18	6	6	7	23
610	275/40 18	CHS/AUTO	19	6	7	8	24
611	215/35 18	CHS/AUTO	13	4	4	5	16
612	245/35 18	CHS/AUTO	16	5	6	6	20
613	275/35 18	CHS/AUTO	18	6	6	7	23
614	285/35 18	CHS/AUTO	19	6	7	8	24
615	35X12.5X R18 LT	CHS/AUTO	29	9	10	12	36
616	335/30 18	CHS/AUTO	23	7	8	9	29
617							
618	4.00-19	HDOTR	22	7	8	9	33
619	260/80 19	HDOTR	60	19	21	24	90
620	255/45 19	CHS/AUTO	19	6	7	8	24
621	255/40 19	CHS/AUTO	18	6	6	7	23
622	235/35 19	CHS/AUTO	16	5	6	6	20
623	245/35 19	CHS/AUTO	16	5	6	6	20
624	305/30 19	CHS/AUTO	21	7	7	8	26
625							
626	8-19.5	CHS	23	7	8	9	29
627	15-19.5	CHS	58	18	20	23	73
628	15-19.50	HDOTR	100	31	34	40	150
629	16.5-19.5	CHS	60	19	21	24	75
630	33/16LL500	HDOTR	83	26	29	33	104
631	18-19.5	HDOTR	140	44	48	56	210
632	18-19.5	CHS	73	23	25	29	91
633	19.5-19.5	CHS	75	23	26	30	94
634	385/65-19.5	HDOTR	96	30	33	38	144
635	445/65 19.5	CHS	68	21	23	27	85
636	225/70 19.5	CHS	24	8	8	10	30
637	245/70 19.5	CHS	27	8	9	11	34

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
638	265/70 19.5	CHS	29	9	10	12	36
639	285/70 19.5	CHS	32	10	11	13	40
640	305/70 19.5	CHS	37	12	13	15	46
641	40X19-19.5	HDOTR	117	37	40	47	176
642							
643	7.50-20	CHS	24	8	8	10	30
644	7.50-20	HDOTR	51	16	18	20	77
645	8.25-20	CHS	31	10	11	12	39
646	8.25-20	HDOTR	63	20	22	25	95
647	8.50-20	HDOTR	63	20	22	25	95
648	9.00-20	CHS	36	11	12	14	45
649	9.00-20	HDOTR	73	23	25	29	110
650	9.50-20	HDOTR	68	21	23	27	102
651	10.00-20	CHS	40	13	14	16	50
652	10.00-20	HDOTR	84	26	29	34	126
653	10.00/10.5-20	HDOTR	66	21	23	26	99
654	11.00-20	CHS	44	14	15	18	55
655	11.00-20	HDOTR	90	28	31	36	135
656	11.2-20	HDOTR	71	22	24	28	107
657	11.50-20	CHS	37	12	13	15	46
658	12.00-20	CHS	47	15	16	19	59
659	12.00-20	HDOTR	100	31	34	40	150
660	12.4-20	HDOTR	83	26	29	33	125
661	12.5-20	HDOTR	80	25	28	32	120
662	12.5-20	CHS	39	12	13	16	49
663	13.00-20	CHS	53	17	18	21	66
664	13.00-20	HDOTR	106	33	37	42	159
665	13.6-20	HDOTR	93	29	32	37	140
666	14.00-20	CHS	63	20	22	25	79
667	14.00-20	HDOTR	134	42	46	54	201
668	14.5-20	CHS	46	14	16	18	58
669	14.75/80 20	CHS	47	15	16	19	59
670	15.5/80 20	CHS	53	17	18	21	66
671	16.00-20	CHS	73	23	25	29	91
672	13/80 20	CHS	38	12	13	15	48
673	260/80 20	HDOTR	60	19	21	24	90
674	275/80 20	HDOTR	64	20	22	26	96
675	335/80 20	HDOTR	86	27	30	34	129
676	365/80 20	CHS	47	15	16	19	59
677	395/85 20	CHS	54	17	19	22	68
678	405/85 20	CHS	55	17	19	22	69
679	375/75 20	HDOTR	99	31	34	40	149
680	425/75 20	HDOTR	123	38	42	49	185
681	380/70 20	HDOTR	96	30	33	38	144
682	405/70 20	HDOTR	104	33	36	42	156
683	420/65 20	HDOTR	103	32	36	41	155
684	275/60 20 LT	CHS/AUTO	23	7	8	9	35
685	325/60 20 LT	CHS/AUTO	30	9	10	12	42
686	275/55 20 LT	CHS/AUTO	23	7	8	9	32
687	265/50 20	CHS	19	6	7	8	24
688	285/50 20	CHS/AUTO	23	7	8	9	29
688	305/50 20 LT	CHS/AUTO	25	8	9	10	31
689	325/50 20 LT	CHS/AUTO	27	8	9	11	34
690	295/45 20	CHS	22	7	8	9	28
691	295/45 20 LT	CHS/AUTO	23	7	8	9	29
692	245/40 20	CHS	16	5	6	6	20
693	295/40 20	CHS	21	7	7	8	26
694	305/40 20 LT	CHS/AUTO	23	7	8	9	29

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
695	275/40 20	CHS/AUTO	21	7	7	8	26
696	275/35 20	CHS/AUTO	20	6	7	8	25
697	245/35 20	CHS/AUTO	17	5	6	7	21
698	38X14.00-20	HDOTR	94	29	32	38	141
699	38X18.00-20	HDOTR	121	38	42	48	182
700	38X20.00-20	HDOTR	129	40	44	52	194
701	41X14.00-20	HDOTR	101	32	35	40	152
702	42X25.00-20	HDOTR	179	56	62	72	269
703	44X18-20	HDOTR	147	46	51	59	221
704	44X18.00-20	HDOTR	140	44	48	56	210
705	44X41.00-20	HDOTR	302	94	104	121	453
706	48X25.00-20	HDOTR	211	66	73	84	317
707	48X31.00-20	HDOTR	258	81	89	103	387
708							
709	12.00-21	CHS	53	17	18	21	66
710	12.00-21	HDOTR	102	32	35	41	153
711	14.00-21	HDOTR	137	43	47	55	206
712	14.00-21	CHS	70	22	24	28	88
713	16.00-21	HDOTR	173	54	60	69	260
714	16.00-21	CHS	81	25	28	32	101
715	24-21	CHS	107	33	37	43	134
716							
717	7.50-22	HDOTR	49	15	17	20	74
718	9.00-22	CHS	44	14	15	18	55
719	10.00-22	CHS	47	15	16	19	59
720	11.00-22	CHS	51	16	18	20	64
721	325/40 22 LT	CHS/AUTO	27	8	9	11	34
722	305/45 22 LT	CHS/AUTO	26	8	9	10	33
723							
724	8-22.5	CHS	25	8	9	10	31
725	9-22.5	CHS	34	11	12	14	43
726	9-22.5	HDOTR	61	19	21	24	92
727	10-22.5	CHS	40	13	14	16	50
728	10-22.5	HDOTR	71	22	24	28	107
729	11-22.5	CHS	40	13	14	16	50
730	11-22.5	HDOTR	83	26	29	33	125
731	12-22.5	CHS	40	13	14	16	50
732	12-22.5	HDOTR	92	29	32	37	138
733	12.5-22.5	CHS	38	12	13	15	48
734	12.75-22.5	CHS	39	12	13	16	49
735	13-22.5	CHS	43	13	15	17	54
736	13-22.5	HDOTR	104	33	36	42	156
737	15-22.5	CHS	62	19	21	25	78
738	16.5-22.5	CHS	71	22	24	28	89
739	18-22.5	CHS	78	24	27	31	98
740	41/18LL 22.5	HDOTR	116	36	40	46	174
741	445/45 22.5	CHS	58	18	20	23	73
742	455/45 22.5	CHS	58	18	20	23	73
743	495/45 22.5	CHS	64	20	22	26	80
744	445/50 22.5	CHS	56	18	19	22	70
745	700/50 22.5	HDOTR	216	68	74	86	324
746	710/45 22.5	HDOTR	211	66	73	84	317
747	445/55 22.5	CHS	60	19	21	24	75
748	455/55 22.5	CHS	62	19	21	25	78
749	385/65 22.5	CHS	59	18	20	24	74
750	385/65-22.5	HDOTR	103	32	36	41	155
751	425/65 22.5	CHS	67	21	23	27	84
752	445/65 22.5	CHS	72	23	25	29	90

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
753	445/65-22.5	HDOTR	130	41	45	52	195
754	255/70 22.5	CHS	31	10	11	12	39
755	275/70R22.5	CHS	34	11	12	14	43
756	305/70R22.5	CHS	38	12	13	15	48
757	245/75 22.5	CHS	31	10	11	12	39
758	265/75 22.5	CHS	34	11	12	14	43
759	295/75 22.5	CHS	36	11	12	14	45
760	305/75 22.5	CHS	41	13	14	16	51
761	235/80 22.5	CHS	28	9	10	11	35
762	255/80 22.5	CHS	31	10	11	12	39
763	275/80 22.5	CHS	36	11	12	14	45
764	295/80 22.5	CHS	40	13	14	16	50
765	315/80 22.5	CHS	44	14	15	18	55
766	365/80 22.5	CHS	53	17	18	21	66
767							
768	305/40 23 LT	CHS	24	8	8	10	34
769							
770	7.50-24	HDOTR	55	17	19	22	83
771	8.3-24	HDOTR	51	16	18	20	77
772	9.00-24	HDOTR	72	23	25	29	108
773	9.5-24	HDOTR	61	19	21	24	92
774	10.00-24	CHS	49	15	17	20	61
775	10.00-24	HDOTR	88	28	30	35	132
776	11.00-24	CHS	53	17	18	21	66
777	11.00-24	HDOTR	101	32	35	40	152
778	11.2-24	HDOTR	76	24	26	30	114
779	11.25-24	HDOTR	92	29	32	37	138
780	12.00-24	CHS	58	18	20	23	73
781	12.00-24	HDOTR	109	34	38	44	164
782	12.4-24	HDOTR	89	28	31	36	134
783	13.00-24	HDOTR	128	40	44	51	192
784	13.00-24	CHS	65	20	22	26	81
785	13.6-24	HDOTR	101	32	35	40	152
786	14.00-24	CHS	75	23	26	30	94
787	14.00-24	HDOTR	144	45	50	58	216
788	14.9-24	HDOTR	116	36	40	46	174
789	15.5-24	HDOTR	121	38	42	48	182
790	16.00-24	CHS	88	28	30	35	110
791	16.00-24	HDOTR	154	48	53	62	231
792	16.9-24	HDOTR	139	43	48	56	209
793	17.5L-24	HDOTR	157	49	54	63	236
794	18.4-24	HDOTR	159	50	55	64	239
795	19.5L-24	HDOTR	186	58	64	74	279
796	21L-24	HDOTR	210	66	72	84	315
797	280/85 24	HDOTR	74	23	26	30	111
798	320/70 24	HDOTR	85	27	29	34	128
799	320/75 24	HDOTR	85	27	29	34	128
800	360/70 24	HDOTR	101	32	35	40	152
801	380/70 24	HDOTR	110	34	38	44	165
802	420/70-24	HDOTR	121	38	42	48	182
803	440/65 24	HDOTR	121	38	42	48	182
804	445/70 24	HDOTR	139	43	48	56	209
805	480/65 24	HDOTR	137	43	47	55	206
806	495/70 24	HDOTR	161	50	56	64	242
807	540/65 24	HDOTR	166	52	57	66	249
808	48X20.00-24	HDOTR	153	48	53	61	230
809							
810	11-24.5	CHS	47	15	16	19	59

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
811	12-24.5	CHS	50	16	17	20	63
812	12-24.5	HDOTR	95	30	33	38	143
813	13.5-24.5	CHS	52	16	18	21	65
814	275/80 24.5	CHS	37	12	13	15	46
815	285/75 24.5	CHS	39	12	13	16	49
816	305/75 24.5	CHS	42	13	14	17	53
817							
818	11.00-25	CHS	54	17	19	22	68
819	12.00-25	CHS	58	18	20	23	73
820	13.00-25	HDOTR	130	41	45	52	195
821	14.00-25	CHS	77	24	27	31	96
822	15.50-25	HDOTR	144	45	50	58	216
823	16.00-25	HDOTR	185	58	64	74	278
824	17.50-25	HDOTR	172	54	59	69	258
825	18.00-25	HDOTR	231	72	80	92	347
826	20.50-25	HDOTR	223	70	77	89	335
827	21.00-25	HDOTR	285	89	98	114	428
828	23.50-25	HDOTR	277	87	96	111	416
829	24.00-25	HDOTR	348	109	120	139	522
830	26.50-25	HDOTR	348	109	120	139	522
831	29.50-25	HDOTR	400	125	138	160	600
832	25/65-25	HDOTR	263	82	91	105	395
833	30/65-25	HDOTR	353	110	122	141	530
834	355/55-25	HDOTR	70	22	24	28	105
835	800/50-25	HDOTR	75	23	26	30	113
836	1000/50 25	HDOTR	431	135	149	172	647
837	1050/50 25	HDOTR	435	136	150	174	653
838	54x37.00-25	HDOTR	326	102	112	130	489
839	66X43.00-25	HDOTR	479	150	165	192	719
840	66X44.00-25	HDOTR	508	159	175	203	762
841	67X34.00-25	HDOTR	398	124	137	159	597
842							
843	13.6-26	HDOTR	105	33	36	42	158
844	14.9-26	HDOTR	121	38	42	48	182
845	16.9-26	HDOTR	144	45	50	58	216
846	18.00-26	HDOTR	236	74	81	94	354
847	18.4-26	HDOTR	190	59	66	76	285
848	23.1-26	HDOTR	265	83	91	106	398
849	28L-26	HDOTR	324	101	112	130	486
850	580/70 26	HDOTR	207	65	71	83	311
851	620/70 26	HDOTR	230	72	79	92	345
852	620/75 26	HDOTR	243	76	84	97	365
853	540/65 26	HDOTR	174	54	60	70	261
854	750/65 26	HDOTR	304	95	105	122	456
855	54X31.00-26	HDOTR	289	90	100	116	434
856	57X31.00-26	HDOTR	273	85	94	109	410
857	66X43.00-26	HDOTR	479	150	165	192	719
858	67X34.00-26	HDOTR	398	124	137	159	597
859							
860	600/55-26.5	HDOTR	195	61	67	78	293
861	700/50-26.5	HDOTR	228	71	79	91	342
862							
863	9.5-28	HDOTR	69	22	24	28	104
864	11.2-28	HDOTR	83	26	29	33	125
865	11.25-28	HDOTR	100	31	34	40	150
866	12.4-28	HDOTR	96	30	33	38	144
867	13.6-28	HDOTR	110	34	38	44	165
868	14.9-28	HDOTR	126	39	43	50	189

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
869	16.8-28	HDOTR	148	46	51	59	222
870	16.9-28	HDOTR	150	47	52	60	225
871	18.4-28	HDOTR	170	53	59	68	255
872	19.5L-28	HDOTR	179	56	62	72	269
873	21L-28	HDOTR	194	61	67	78	291
874	420/70 28	HDOTR	140	44	48	56	210
875	480/70 28	HDOTR	168	53	58	67	252
876	440/65 28	HDOTR	131	41	45	52	197
877	480/65 28	HDOTR	149	47	51	60	224
878	540/65 28	HDOTR	180	56	62	72	270
879	600/65 28	HDOTR	214	67	74	86	321
880							
881	24.00-29	HDOTR	366	114	126	146	549
882	26.50-29	HDOTR	354	111	122	142	531
883	29.50-29	HDOTR	420	131	145	168	630
884	30/65-29	HDOTR	380	119	131	152	570
885	33.25-29	HDOTR	506	158	174	202	759
886							
887	7.2-30	HDOTR	47	15	16	19	71
888	7.50-15 30	HDOTR	44	14	15	18	66
889	14.9-30	HDOTR	141	44	49	56	212
890	16.9-30	HDOTR	177	55	61	71	266
891	18.0-30	HDOTR	202	63	70	81	303
892	18.4-30	HDOTR	176	55	61	70	264
893	23.1-30	HDOTR	243	76	84	97	365
894	420/90 30	HDOTR	155	48	53	62	233
895	620/75 30	HDOTR	251	78	87	100	377
896	480/70 30	HDOTR	167	52	58	67	251
897	540/65 30	HDOTR	187	58	64	75	281
898	67X34.00-30	HDOTR	398	124	137	159	597
899							
900	9.5-32	HDOTR	73	23	25	29	110
901	12.4-32	HDOTR	103	32	36	41	155
902	24.5-32	HDOTR	314	98	108	126	471
903	30.5L-32	HDOTR	395	123	136	158	593
904	35.5L-32	HDOTR	440	138	152	176	660
905	650/75 32	HDOTR	282	88	97	113	423
906	680/75 32	HDOTR	306	96	106	122	459
907	800/65 32	HDOTR	357	112	123	143	536
908	1050/50 32	HDOTR	496	155	171	198	744
909	68X50.00-32	HDOTR	594	186	205	238	891
910	VA73X44.00-32	HDOTR	561	175	193	224	842
911	76x50.00-32	HDOTR	598	187	206	239	897
912	78x45.00-32	HDOTR	564	176	194	226	846
913							
914	18.00-33	HDOTR	258	81	89	103	387
915	21.00-33	HDOTR	295	92	102	118	443
916	24.00-33	HDOTR	363	113	125	145	545
917	27.00-33	HDOTR	485	152	167	194	728
918	29.50-33	HDOTR	419	131	144	168	629
919	33.50-33	HDOTR	541	169	187	216	812
920	35/65-33	HDOTR	511	160	176	204	767
921	37.50-33	HDOTR	647	202	223	259	971
922	DH73X44.00-33	HDOTR	561	175	193	224	842
923							
924	14.9-34	HDOTR	138	43	48	55	207
925	16.9-34	HDOTR	165	52	57	66	248
926	18.4-34	HDOTR	215	67	74	86	323

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
927	20.8-34	HDOTR	222	69	77	89	333
928	23.1-34	HDOTR	258	81	89	103	387
929	290/95 34	HDOTR	100	31	34	40	150
930	320/85 34	HDOTR	110	34	38	44	165
931	380/85 34	HDOTR	150	47	52	60	225
932	385/85 34	HDOTR	142	44	49	57	213
933	420/85 34	HDOTR	162	51	56	65	243
934	620/75 34	HDOTR	259	81	89	104	389
935	650/75 34	HDOTR	288	90	99	115	432
936	710/75 34	HDOTR	340	106	117	136	510
937	480/70 34	HDOTR	187	58	64	75	281
938	540/65 34	HDOTR	199	62	69	80	299
939	600/65 34	HDOTR	231	72	80	92	347
940	700/55 34	HDOTR	278	87	96	111	417
941							
942	21.00-35	HDOTR	324	101	112	130	486
943	24.00-35	HDOTR	393	123	136	157	590
944	29.50-35	HDOTR	451	141	156	180	677
945	33.25-35	HDOTR	541	169	187	216	812
946	37.25-35	HDOTR	642	201	221	257	963
947							
948	9.5-36	HDOTR	79	25	27	32	119
949	11.2-36	HDOTR	97	30	33	39	146
950	12.4-36	HDOTR	112	35	39	45	168
951	13.6-36	HDOTR	129	40	44	52	194
952	13.9-36	HDOTR	127	40	44	51	191
953	230/95 36	HDOTR	78	24	27	31	117
954	270/95 36	HDOTR	93	29	32	37	140
955							
956	11.2-38	HDOTR	101	32	35	40	152
957	12.4-38	HDOTR	116	36	40	46	174
958	13.6-38	HDOTR	131	41	45	52	197
959	14.9-38	HDOTR	149	47	51	60	224
960	15.5-38	HDOTR	150	47	52	60	225
961	16.9-38	HDOTR	176	55	61	70	264
962	18.4-38	HDOTR	199	62	69	80	299
963	20.8-38	HDOTR	235	73	81	94	353
964	320/85 38	HDOTR	117	37	40	47	176
965	380/80 38	HDOTR	150	47	52	60	225
966	580/70 38	HDOTR	261	82	90	104	392
967	620/70 38	HDOTR	279	87	96	112	419
968	710/70 38	HDOTR	341	107	118	136	512
969	540/65 38	HDOTR	213	67	73	85	320
970	600/65 38	HDOTR	247	77	85	99	371
971	650/65 38	HDOTR	275	86	95	110	413
972							
973	33.50-39	HDOTR	576	180	199	230	864
974	37.50-39	HDOTR	686	214	237	274	1029
975	40/65-39	HDOTR	676	211	233	270	1014
976	40.5/75-39	HDOTR	686	214	237	274	1029
977	41.25/70-39	HDOTR	682	213	235	273	1023
978							
979	180/95 40	HDOTR	60	19	21	24	90
980	230/95 40	HDOTR	82	26	28	33	123
981							
982	9.5-42	HDOTR	86	27	30	34	129
983	12.4-42	HDOTR	124	39	43	50	186
984	18.4-42	HDOTR	211	66	73	84	317

Ride-On Tire Protection System (TPS) Dosage Table

No.	Tire Size Designation	Formula	Regular oz. (Units)	0 PSI Counter	50 PSI Counter	100 PSI Counter	Severe oz. (Units)
985	20.8-42	HDOTR	248	78	86	99	372
986	320/90 42	HDOTR	128	40	44	51	192
987	520/85 42	HDOTR	254	79	88	102	381
988	620/70 42	HDOTR	296	93	102	118	444
989	710/70 42	HDOTR	365	114	126	146	548
990	650/65 42	HDOTR	289	90	100	116	434
991	900/50 42	HDOTR	427	133	147	171	641
992							
993	45/65-45	HDOTR	863	270	298	345	1295
994							
995	12.4 46	HDOTR	134	42	46	54	201
996	13.6-46	HDOTR	147	46	51	59	221
997	14.9-46	HDOTR	168	53	58	67	252
998	18.4-46	HDOTR	222	69	77	89	333
999	320/90 46	HDOTR	136	43	47	54	204
1000	380/90 46	HDOTR	171	53	59	68	257
1001	520/85 46	HDOTR	256	80	88	102	384
1002	420/80 46	HDOTR	187	58	64	75	281
1003	480/80 46	HDOTR	223	70	77	89	335
1004							
1005	270/95 48	HDOTR	113	35	39	45	170
1006	230/95 48	HDOTR	92	29	32	37	138
1007							
1008	18.00-49	HDOTR	312	98	108	125	468
1009	21.00-49	HDOTR	378	118	130	151	567
1010	24.00-49	HDOTR	455	142	157	182	683
1011	27.00-49	HDOTR	549	172	189	220	824
1012							
1013	320/90 50	HDOTR	143	45	49	57	215
1014	480/80-50	HDOTR	240	75	83	96	360
1015							
1016	30.00-51	HDOTR	660	206	228	264	990
1017	33.00-51	HDOTR	756	236	261	302	1134
1018	36.00-51	HDOTR	884	276	305	354	1326
1019	37.50-51	HDOTR	763	238	263	305	1145
1020	50/65-51	HDOTR	1074	336	370	430	1611
1021							
1022	270/95 54	HDOTR	126	39	43	50	189
1023	320/90 54	HDOTR	149	47	51	60	224
1024							
1025	27-56.5	HDOTR	447	140	154	179	671
1026	30-56.5	HDOTR	539	168	186	216	809
1027							
1028	37.00-57	HDOTR	949	297	327	380	1424
1029	40.00-57	HDOTR	1091	341	376	436	1637
1030	46/90-57	HDOTR	1001	313	345	400	1502
1031	48/95-57	HDOTR	1169	365	403	468	1754
1032	50/90-57	HDOTR	1169	365	403	468	1754
1033							
1034	33-59.5	HDOTR	635	198	219	254	953
1035	36-59.5	HDOTR	747	233	258	299	1121
1036	39-59.5	HDOTR	854	267	294	342	1281
1037							
1038	55/80R63	HDOTR	1310	409	452	524	1965

Material Safety Data Sheet (MSDS)

Date Prepared: 04-22-2008
Date Printed: 4/22/2008
MSDS No: 022703-001.001

RIDE-ON TIRE PROTECTION SYSTEM (TPS) TIRE SEALANT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: **Ride-On Tire Protection System (TPS) Tire Sealant**
Product Description: Water-based tire sealant for pneumatic tires

Company
Inovex Industries, Inc.
45681 Oakbrook Court, Unit 102
Sterling, VA 20166 USA
Tel: 703-421-9778
Fax: 703-421-1967

Emergency Telephone Number:
1-800-255-3924
24 hours everyday

Information Telephone Number:
703-421-9778
1-888-374-3366 (US Only)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	**CAS Number**	**% (by weight)**
Ethylene Glycol	107-21-1	35–55
Water	7732-18-5	45-65
Fibers and fillers (no asbestos, ceramics, or glass)	Proprietary	3-8
Non-heavy metal based corrosion inhibitors	Proprietary	1.5-4
other ingredients that are either:		Balance less than 1%

A) Not classified by the OSHA Communication Standard to be Hazardous, or

B) Present in concentrations less than 1% (less than .05% for carcinogens) in this product

3. Hazards Identification

Potential Health Effects:

Eye

Exposure may cause mild eye irritation. Symptoms may include stinging, tearing, redness, and swelling.

Skin

Harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Swallowing

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

Inhalation

Harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Developmental Information

This material (or a component) may cause birth defects in humans based on positive test results with laboratory animals.

Cancer Information

This material is not expected to be carcinogenic in humans based in negative evidence of carcinogenicity in laboratory animals. This material is not listed as a carcinogen by IARC, NTP, or OSHA.

Primary Routes of Entry

Inhalation, skin contact, eye contact, ingestion - industrial products are not meant to be swallowed.

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Swallowing

If swallowed, seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.

Skin

Harmful effects are not expected from this route of exposure under normal conditions of handling and use. Although rare, skin contact with ethylene glycol may cause allergic skin reaction. Exposure may cause mild skin irritation. Symptoms may include redness and burning. Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Inhalation

Harmful effects are not expected from this route of exposure under normal conditions of handling and use. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet. If person is not breathing, begin artificial respiration.

Note to Physicians

This product contains Ethylene Glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, use three to four 1-ounce “shots” of 86-proof or higher whiskey before or during transport to the hospital. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

5. FIRE FIGHTING MEASURES

Flash Point

None to Boil (> 550°F)

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide.

Extinguishing Media

Water fog, alcohol foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Wear a self-contained breathing apparatus with full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS. No special precautions necessary when fighting fires involving this product.

NFPA Rating

Health - 1, Flammability - 1, Reactivity – 0

6. ACCIDENTAL RELEASE MEASURES

Small Spills

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Collect material with vacuum cleaner.

Large Spills

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. Handling and Storage

Handling and Storage

Keep container closed when not in use. It is recommended that containers of product be stored indoors or out of direct sunlight. Precautions should be taken when lifting containers to prevent injury. Empty containers should be cleaned thoroughly of product residues prior to reuse.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses. Consult your safety representative.

Skin Protection

Harmful effects are not expected from this route of exposure under normal conditions of handling and use. However, as part of good industrial hygiene practices, wear resistant gloves such as: neoprene, nitrile rubber, natural rubber, and polyvinyl chloride.

Respiratory Protection

Harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Exposure Guidelines

Component

ETHYLENE GLYCOL (107-21-1)
OSHA VPEL 50.000 ppm - Ceiling
ACGIH TLV 50.000 ppm - Ceiling vapor and mist

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	Greater than 250 F (121 C)
Vapor Pressure:	N/A
Specific Vapor Density:	N/A
Specific Gravity:	1.06 – 1.10 (H2O = 1)
Percent Volatile:	No Data
Evaporation Rate:	Not Data
State:	Liquid
Color:	Color added (typically found: White, Yellow, Blue, Cream, Orange, Red, Purple)
Odor:	Faint Glycol
pH:	8.0 – 10.0
Viscosity:	2,300 cp – 15,000 cp
Freezing Point:	< -40 F (-40 C)

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
May form: carbon dioxide and carbon monoxide.

Chemical Stability
Stable.

10. Toxicological Information

No Data.

11. Toxicological Information

No Data.

12. Ecological Information

No Data.

13. Disposal Information

Waste Management Information
Dispose of in accordance with all applicable local, state, and federal regulations. Do not flush to storm sewer.

14. TRANSPORT INFORMATION

THIS MATERIAL IS NOT HAZARDOUS AD DEFINED BY 49 CFR 172.101 BY THE US DEPARTMENT OF TRANSPORTATION

DOT Information - 49 CFR 172.101

DOT Description: This product is non-flammable, non-hazardous and not Regulated

Container/Mode: 275 gallon tote, 55 Gallon Drum, 5 Gallon Pail, 8 & 16 ounce bottles.

NOS Component: None

RQ (Reportable Quantity) - 49 CFR 172.101

Not Applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4

Component	RQ (lbs)
Ethylene Glycol	5000

SARA 302 Components - 40 CFR 355 Appendix A

None

International Regulations

Inventory Status

DSL (CANADA) The intentional ingredients of this product are listed.

State and Local Regulations

California Proposition 65

None

New Jersey RTK Label Information

Ethylene Glycol	107-21-1

Pennsylvania RTK Label Information

1,2-Ethanediol	107-21-1

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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American Trucking Association, Tire Reatread Information Bureau, Truck Leasing and Rental Association