

**Preferred materials for usage as bead lubricants are:**

1. **Vegetable oil soaps**
2. **Animal soaps**

These materials will have no adverse affect on tires or rims. If the approved lubricants are applied in water solutions, they must contain 10% to 20% solids and a rust inhibitor. When dry, the lubricant should have no residual lubricity and should not flake from the surface upon which it is applied. It is recommended the lubricant be purchased in a ready-to-use state, decreasing the possibility of contamination due to improper dilution.

Mounting procedures and safety precautions as outlined by tire or rim manufacturers, or as contained in such publications as the Rubber Manufacturers' Association care and service manuals should be adhered to. RMA publications can be obtained directly by calling (202)682-4800, or accessing their website at [www.rma.org/](http://www.rma.org/).

To avoid safety hazards, damage to tires and rims and tires slipping on rims **the following materials should not be used:**

1. **Petroleum oils or grease-** These may have a harmful effect on the tire, tube, and flaps.
2. **Improper ratios of approved lubricants and water-** These may have harmful effects on the tire, wheel, and tube. Also may result in improper off center tire mounting on wheels affecting ride and tread wear.
3. **Silicone oils and emulsions-** These may cause the tire to slip on its rim while in use negating original balance and ride quality.
4. **Solvent based lubricants-** **Warning: These may create explosive mixtures of air and volatiles in the tire, which may result in serious injury or death.**

These recommendations coincide with TMC RP 205A Tire Bead Lubricants, published by the Technology & Maintenance Council (TMC) of American Trucking Associations. They also agree with RMA recommended mounting procedures and safety practices.