



EMPIRE
PACIFIC

Risk Management, Inc.

HIGH-PRESSURE INJECTION EQUIPMENT

Company Name _____ Job Name _____

The use of high-pressure injection equipment has increased dramatically in recent years. Many combustion engines are now equipped with fuel injection systems designed to improve performance. Both industrial and casual home users operate high-pressure equipment such as grease guns, paint sprayers, and washers. These devices usually eliminate labor-intensive activity and reduce the amount of time needed to complete various tasks.

Pressurized systems typically operate at pressure up to 2,500 pounds per square inch (psi) with tip pressures of nozzles reaching 12,000 psi. A fluid stream with a pin size diameter can reach flow speeds of 500 feet per second. Due to the tremendous pressure and speed attained by the fluid in these systems, protective clothing is often an ineffective barrier.

Direct fluid contact with the skin should be avoided. Puncture wounds with fluid penetration inside the human body are serious injuries that can result in blood poisoning, destruction of internal tissues, and bacterial infection. The hand is frequently the location of an injection injury. The potential for amputation exists if treatment is not administered promptly and properly.

If you sustain a high-pressure injection injury, the injected fluid can travel throughout your body. *Seek professional medical treatment immediately!* Treatment will vary, depending upon the amount and type of fluid involved. Typical treatment may include ice, and compression and elevation of the injection site. A tetanus or antibiotic shot may be given. Surgery to remove the fluid may also be necessary.

Take Care With This Equipment:

Workers who utilize high-pressure equipment should be trained to operate the equipment properly and safely. Some basic rules to follow are:

- Perform regular safety inspections of the fluid piping system to reduce the likelihood of system leaks.

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HIGH-PRESSURE INJECTION EQUIPMENT (Continued)

- Always turn off the equipment and bleed off any remaining pressure if you will be leaving the equipment unattended.
- Never point the nozzle at *any* part of your body or at *any* bystanders.
- Never use your finger as a tool to unclog an obstructed nozzle tip.

Safety Recommendations: _____

Job Specific Topics: _____

M.S.D.S Reviewed: _____

List of Attendees

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