Chemical: Safe Use & Selection

















Industrial Tool & Chemical Safety & Selection

Employers are responsible for maintaining in good repair any tools and equipment supplied to workers. Workers must use tools and equipment properly and report any defects to supervisors. Tools and equipment should be inspected regularly. Use the guards and personal protective equipment which we all know are needed but sometimes tend to overlook. *Never* disable, for the sake of convenience any built in safety features or guards on tools. Basic hazard awareness and common sense can prevent serious injuries with industrial hand and power tools.

Common Causes of Accidents - Typical causes of hand and power tool accidents include the following:

- Using the wrong tool for the job
- Tools falling from overhead
- Sharp tools carried in pockets
- Using cheaters on tool handles
- Excessive vibration
- Failure to support or clamp work in position
- Carrying tools by hand up or down ladders

Safe practices for the industrial work place

- Use the right tool for the job. Using a clamp to lift, using a cheater bar on a handle or, using pliers instead of a proper wrench are typical examples of the mistakes which commonly lead to accidents and injuries.
- Use tools as recommended by the manufacturer. For example, don't
 use cheaters on handles. This will exert greater forces on the tool than it
 was designed for and is likely to cause breakage and possible injury.
- Damaged or broken tools should be removed from service. Clamps with broken pads, bent handles, corroded pads, snips with notched blades, bent clamps, damaged spindles etc. are all unsafe and should be removed from service and be either repaired or destroyed.

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- Maintain tools in safe operating condition. Keep handles, pads and spindles clean, secure and safe. Don't rely on friction tape to secure split handles or to prevent handles from splitting. Check wedges and handles frequently. Keep handles smooth and free of rough or jagged surfaces. Replace handles, spindles, blades and pads that are split, corroded, or that cannot be refitted securely.
- Never climb ladders with tools in your hand. Tool holders / pouches free your hands while climbing or working on ladders, scaffolding, and other areas where access may be difficult. When carrying tools up or down from elevated places, put them in substantial bags or boxes and raise and lower them with strong ropes.
- Spark-resistant tools (non-ferrous tools) are recommended where flammable materials or explosive dusts or vapors might be present. These tools, such as brass or copper hammers or mallets, should still be used with caution; remember, they may not guarantee safety in all explosive situations such as in the presence of gasoline vapors. It is always safer to eliminate the hazard by ensuring a safe atmosphere through isolation, ventilation, or purging.
- Protect the cutting edges of tools when carrying them. Carry them in such a way that they won't be a hazard to yourself and others. Carry pointed or sharp edged tools in pouches or holsters.
- Keep your hand tools clean. Protect them against damage caused by corrosion. Wipe off accumulated dirt and grease. Dip the tools occasionally in cleaning fluids or solvents and wipe them clean.
- Lubricate adjustable and other moving parts to prevent wear and misalignment.
- Stay aware of your surroundings look around and keep a mental note of what is going on around you. Identify & be mindful of potential dangers.
- Falling tools are a dangerous hazard for workers below. Keep track of tools, especially when working at heights on scaffolds or other access equipment.

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- Inspection and Repair of Industrial Tools Tools should be inspected by a person qualified through training and experience to determine the safe condition of the tool. Worn or damaged tools should be tagged "DEFECTIVE DO NOT USE" and returned to the shop for repair or replacement. Regular inspection of all tools is necessary and should cover tool maintenance. Observing proper handling and storage of tools should also be a part of the inspection process. Responsibility for inspection is usually left to the supervisor; however, tools should be checked by those who use them daily. Hand tools that get the heaviest use and abuse should be inspected frequently. To maintain and repair tools properly requires the right facilities and equipment. A good workbench, repair tools, vises, and good lighting are necessities. Only persons skilled in the repair of tools should be allowed to do the repairs.
- Misuse Misuse of hand tools is a common cause of injury in the work place. In many cases, the injury results because it is assumed that everyone knows how to use most common hand tools. This is not the case. It is the responsibility of the supervisor and employer to ensure that workers are trained in the safe and proper use of hand tools.

Personal Protection

Hands – Hands can be caught in machines, crushed by objects, or cut by sharp-edged tools such as chisels, knives, and saws. Hands can also be damaged by being burned, fractured, or sprained unless you stay alert. Always wear protective gloves appropriate to the job being done.

Feet – Always wear the correct protective footwear for the job (Steel toed, rubber, leather etc...)

Eyes – Eyes are highly susceptible to injury; however, most eye injuries are preventable. Always wear appropriate safety glasses / face shields for the job.

Ears – Hazardous noise levels are inherent in industry. Hearing protection should be worn whenever there is a risk of excessive exposure.



Safe Use & Selection of Industrial Cutting fluids & Other Industrial Chemical Products

The industrial chemicals distributed by BESSEY® Tools North America fall into several categories;

- "Cutting & Air tool lubricants" from the Relton Corp.;
 - o "A-9", "Option 1", "Rapid Tap "
- "Metal repair compounds" from Alvin Products;
 - o "Lab-metal", "Lab-solvent" & "Hi-Temp Lab-metal"

Proper selection

- **1.** Always understand and choose the chemical product best suited to the requirements of the job at hand.
- 2. Check the manufacturers "Technical Data" sheets for help in determining the suitability of any product in regards to your the requirements of the job at hand.
 - a. For Relton products go to www.relton.com
 - b. For Alvin products go to www.alvinproducts.com

Safe & proper use

- 1. Always read and understand a chemical product's GHS and WHMIS information before use
- **2.** Always use the recommended safety gear when using industrial chemicals such as vapor masks, gloves, etc...
- 3. When in doubt always check the GHS and WHMIS information to ensure that you have been made available & are using all of the recommended safety gear.
- **4.** When working outdoors, always choose the most environmentally friendly option available.