Answers to Some of My Favorite FAQs

By Kenneth Ross

While the responsibility of providing adequate warnings and instructions should not be taken lightly, having competent legal and technical personnel available to answer difficult questions should alleviate manufacturers’ fears.

Providing advice on warnings and instructions has occupied a good portion of the last 35 years of my professional life. First as an in-house lawyer and then as outside counsel, I have tried to provide both legal and practical advice in this area. Given the lack of law on many issues involving warnings and instructions, it is impossible simply to offer a legal opinion and have it provide useful guidance for a manufacturer.

Therefore, those who advise on these subjects must be prepared to use their legal knowledge and combine it with practical judgment to provide a realistic set of options for a manufacturer to use to make decisions.

DRI has just published a global compendium on the duty to warn, which discusses the law in all 50 states and the District of Columbia as well as in a number of foreign countries. This will be useful in understanding the law in these various areas, especially when you litigate a case in a particular jurisdiction. But it won’t be that helpful in making decisions about warnings and instructions that will be sold throughout the United States and internationally. Focusing on a particular jurisdiction is not useful when you wish to comply with the law in all regions in which a product will be sold.

The intent of this article is not to discuss in detail the legal analysis that might apply to answering certain questions, but to provide short practical answers to questions that I and others have received and answered over the years. To the extent that someone has written on the subject previously, I will provide a link to the more comprehensive article. I will assume that a reader understands generally the duty to warn and is familiar with the applicable American National Standards Institute (ANSI) standards.

FAQs

Are there guidelines that detail the process of developing warnings?

ANSI issued a standard dealing with on-product warnings in 1991 (ANSI Z535.4) and how to incorporate safety information into collateral instructions in 2006 (ANSI Z535.6). These standards contain guidelines on how to develop, write and format warnings and instructions. In addition, there are product-specific laws and standards that governments, ANSI and other standards organizations have issued over the years that pertain to warnings such as the Federal Hazardous Substances Act, enforced by...
the U.S. Consumer Product Safety Commission, for chemicals in consumer products and ANSI Z400.1/Z129.1-2010 for industrial chemicals and material safety data sheets. These product-specific laws and standards would take precedence and, therefore, need to be identified and considered. The ANSI Z535.4 standard states:

There are a number of existing American National Standards that are recognized for particular industries or specific uses. Compliance with such a standard may be considered for the particular industry or use. It is not the intent of this ANSI Z535.4 standard to replace existing standards or regulations that are uniquely applicable to a specific industry or use.

In addition to ANSI and other U.S. organizations issuing standards, the International Organization for Standardization (ISO) has issued standards on warnings and instructions for all products (ISO 3864) and also for specific product categories such as ISO 11684 for agricultural equipment, and the European Union has issued directives on products such as machinery that contain warnings requirements.

As long as the word message and the pictorial in the label are more important in communicating the message, for instance, that you want to warn about risks that are very remote or have low severity. This can also create problems for your competitors in that you have created a “better” warning that will be compared to your competitor’s warnings.

For some products, there may be multiple laws, regulations, standards and guides that need to be considered when developing warnings and instructions. That is one reason why personnel involved in developing such information need to be familiar with all of the applicable reference documents that need to be considered. Products do need to comply with some documents, and some might just provide helpful guidance. The goal is to use all of the relevant resources available and be prepared to defend the adequacy of your process and your warnings.


Is there a risk in exceeding the voluntary standards for product labeling applicable to my product? Is that an admission that my product is more dangerous than my competitors, or does this create a problem for my competitors by providing warnings that are better than theirs?

The law is clear that mere compliance with standards is not an absolute defense in product liability cases. Therefore, you must meet or exceed the standards. All warnings can be used to support an argument that a product is hazardous and allow a plaintiff to argue that you should have designed the product to eliminate a hazard rather than warned purchasers about it. So excessive warnings can create some problems for you, especially if you warn about risks that are very remote or have low severity. This can also create problems for your competitors in that you have created a “better” warning that will be compared to your competitor’s warnings.

It is better for an industry to adopt what everyone thinks are adequate labels as the standard. Then, each manufacturer will comply with the standard and not feel compelled to do better. With that said, if an industry does a poor job in developing a standard or does not have a warnings standard, you should put labels on your product and provide instructions that you believe are appropriate for safety and necessary to comply with the law. In addition, hopefully these also could comply with ANSI Z535.

What if there are product-specific laws such as the Federal Hazardous Substances Act (FHSA) or standards such as UL’s that conflict with ANSI Z535.4? Is it imperative that you also follow ANSI Z535?

There is no evidence that the ANSI Z535.4 formats are superior to other formats or requirements. It is important to identify and comply with the more product-specific requirements first. But, remember that the plaintiff can argue that you should have exceeded the product specific standards and, many times, that would be the Z535.4 standard. Therefore, if you can also comply with the Z535.4 standard, so much the better.

Is there a problem if you select the wrong signal word?

Z535.4 uses three signal words for injury related hazards: DANGER, WARNING and CAUTION. In the Annex to the standard, there is a detailed process for selecting the correct signal word. Many manufacturers have been concerned about what could happen if they select the wrong signal word, given the definitions in the standard. The signal word is an attention getter and also transmits part of the message concerning probability and severity of harm. However, the word message and the pictorial in the label are more important in communicating the message.

So while it is preferable for a signal word and a message panel to be consistent, meaning, for instance, that you want to pair DANGER with “will cause serious injury or death,” I think that it is unlikely that a jury would find a warning label defective if the signal word was wrong. As long as the word message and the pictorial accurately describe the hazard and the probability and the severity, the signal word becomes less important.

With that said, once you determine the potential severity of harm as being a risk of serious injury or death, the signal word is usually going to be WARNING. You would save DANGER for risks involving a high
probability ("will") of harm and, according to the standard, this signal word should be limited to the "most extreme situations."

Do you always need to state the hazard, consequences and avoidance procedures even if they are obvious? The ANSI Z535.4 standard in Annex B reads:

For some products, there may be multiple laws, regulations, standards and guides that need to be considered when developing warnings and instructions.

The word message on a hazard alerting sign typically communicates information to a viewer on the type of hazard, the consequence of not avoiding the hazard, and how to avoid the hazard. Many factors must be considered when determining whether to omit consequence, avoidance, or type of hazard information in the word message. Factors to consider include whether the message can be inferred from a symbol, other text messages, user training, or the context in which the safety sign is used.

Certainly, it is clear that many hazards and avoidance procedures can be readily inferred when a label is on a product and near the hazard. Studies also support this view. It has been said that "[f]rom a practical standpoint, this study affirms ANSI Z535.4's acknowledgment that people can infer a variety of information about hazards in the context of product use without reading explicit statements on a label." J.P. Frantz, T.P. Rhoades, R.J. Shah, S.M. Hall, J.J. Isaacson & C.G. Burhans, "ANSI Z535 signal words and the ability to infer hazard and consequence information—1992 versus 2004 in Proceedings of the Human Factors and Ergonomics Society (HFES) 49th Annual Meeting 1790–94. (HFES 2005).

But you need to be careful about delet-
guage other than English. Despite that, some retailers do demand at least Spanish on warnings and instructions sold in their stores. Unless there is a customer request, a manufacturer should preferably add more pictorials rather than add a foreign language to try to communicate with non-English-reading product users. Once you add a foreign language, you have to decide which one to add, and then you need to be sure that the instruction manual is also in that language. And sometimes Spanish is not the only language that needs to be considered. Lastly, adding other languages will sometimes diminish the conspicuity of the English message and thereby increase the potential liability for English-reading users who have a hard time finding the English portion of the message.

When can safety messages be in the manual and not in the label? When on the label and not in the manual?
There is very little guidance in the law or the general warnings standards on these questions. Some product-specific standards, including UL requirements, do specifically say whether the warning must be on a product or in the manual. Without that requirement, it is up to a manufacturer to decide.

My operating principle is based on an analysis of whether the reader needs to see the information each time that he or she uses a product, or whether he or she can read the manual and then refer to that information later on as needed. Steve Hall from Applied Safety and Ergonomics and chair of the ANSI Z535.4 subcommittee said on this question:

There is no hard and fast rule, but generally you want to try to provide messages in a way that gives people a reasonable chance to read them at an appropriate time. So, for tasks that are expected to involve referring to the manual (e.g., assembly, troubleshooting, maintenance, etc.), it is generally reasonable to provide safety messages in the relevant part of the manual, and not on a label. Conversely, for scenarios where the target audience is not reasonably expected to have access to a manual, a label may be more appropriate.

In addition, Professor David Owen addressed this issue in his product liability hornbook:

Whether adequacy requires in any given case that warnings be placed directly on the product involves a balance of the significance of the hazard, the user’s need for the information, the availability of a feasible means to place the warnings on the product, and other factors in the calculus of risk. If feasible, reason normally suggests that important warnings be placed on the product itself rather than in a pamphlet, booklet, or information sheet that can be damaged, lost, destroyed or stuffed in an office drawer… Depending on the circumstances, however, a warning may still be adequate even if it is provided off the product in a manual or other writing. Product Liability Law 601 (2d ed. Thomson West 2008).

For a more extensive discussion, see my article Location of Warnings: On Product or in the Manual?, DRI Product Liability Committee Newsletter, Summer 2008. Also see J.P. Frantz, T.P. Rhoades, & M.R. Lehto, “Practical Considerations Regarding the Design and Evaluation of Product Warnings,” supra, at 303.

What about warnings and instructions on component parts that an original product manufacturer (OEM) inserts into its final product?
An OEM is responsible for providing adequate warnings and instructions for its finished product, including all of its components. Therefore, any inadequacies could result in liability for the OEM. However, the component part supplier can also be responsible for inadequacies in the warnings and instructions provided with its component.

The OEM should try to buy components from suppliers that appear to have adequate warnings and instructions. Therefore, if a component has warnings, for example, that do not comply with ANSI Z535.4 or any of the other standards, then the OEM should ask the supplier to upgrade the labels. If the OEM assumes the duty to revise component part labels, it could also become liable for any inadequacies in the warnings. The burden should really be on the supplier to provide adequate information and not the OEM.

In the component part purchasing process, an OEM should provide requirements and guidelines to the component supplier about how the OEM wants the warnings and the instructions to appear and be provided. The OEM will then need to decide if it will provide the component supplier’s instructions as a separate manual or incorporate them into the final product manual. If they are incorporated into the manual, and the OEM makes changes, the supplier should approve the final version of the OEM’s manual. And the supplier should indemnify the OEM in case there are inadequacies in the supplier’s warnings and instructions.

Let’s change the facts and say that the component part supplier doesn’t know how its component will be used, where it will be placed and where the operator will be standing in relation to its component. How can the component part supplier provide warnings and instructions that will be adequate for all uses and locations? Well it can’t, and it shouldn’t be required to do so. But the supplier should have some idea of the various ways in which its product can be used and should attempt to provide some guidance to the OEM on safety information that needs to be incorporated into the instructions depending on the various uses that the supplier can anticipate.

The supplier might also provide to the OEM loose warning labels with instructions on where to place them, depending on how the component is incorporated into the final product and where the hazard will be located for the user. Putting the burden on the OEM to make the final decision on the warnings and instructions is inappropriate in this situation. Whether you can get an OEM to take that responsibility depends on the sophistication of the OEM. If an OEM doesn’t know what it is doing, then maybe the component supplier should visit the OEM’s plant and “approve” the installation of the component and placement of the warnings.

Do you always need to provide a hard copy of the instruction manual, or can you put the manual on a CD and include it with the product or have a reference (website link or QR code) on the label to the manual on the company’s website?
The standards don’t discuss whether a hard copy instruction manual is required, or whether the information can be provided in another way. The reason is probably that
most manufacturers provide their instructions in a hard copy. However, there have been manufacturers of certain products that have recently asked about not providing a hard copy. Instead they want to include the instructions as an electronic file in a product or in a CD format or just provide on a label a link to the manual on a website. Examples of such products would be cell phones, computers, TVs and certain machinery or equipment run by computers.

I have seen no law that discusses this issue and since, except as discussed below, virtually no laws or standards say one way or another, a manufacturer could omit the hard copy and argue that what it provided was adequate under the circumstances.

The ANSI Z535.6 subcommittee has been discussing the increased use of social media and company websites and how that relates to the required instructions. I anticipate that the committee will add some sections on this subject in the 2016 ANSI Z535.6 revision. However, for now, the ANSI Z535.6 standard does mention “supplemental directives,” which could include references to website links, QR codes and other recognized types of safety messages.

In Europe, the Guide to the EU Machinery Directive specifically requires that a hard copy of the manual accompany machinery. Until the Guide changes, manufacturers of machinery have no other choice. However, in March 2012, the European Commission approved the use of electronic forms of instructions with certain medical devices intended for use exclusively by medical professionals.

Manufacturers of active implantable medical devices, implantable medical devices, fixed installed medical devices and medical devices fitted with visual display systems will be able to provide in electronic form use instructions previously provided on paper.

Manufacturers providing electronic instructions will be required to include notices on product packaging on how to access the electronic forms of instruction, or provide supplementary printed instructions on how to access electronic instructions.

Even before the ANSI committee includes provisions on electronic instructions, manufacturers should consider using new technology to transmit safety information more effectively and efficiently. The ability to provide animations, videos, expanded illustrations and other more interesting ways to explain how to safely use products should be considered and utilized when possible. There is even technology being developed to allow attaching verbal warning labels to a product. VessTech Inc., http://www.vessotech.com/ (last visited Oct. 1, 2012).

At a minimum, the on-product warnings should tell a user to read the manual before using a product and tell the user how to obtain a replacement manual if one is missing. This can be done by providing an 800 number to call, an email address of a company employee, or a website link from which the user could download a replacement manual.

How do you incorporate safety information into the company website?


The ANSI Z535.6 subcommittee will be considering future revisions, which could discuss how to incorporate safety information into websites. At the moment, there are no requirements to have extensive safety information similar to the Caterpillar and Toro websites mentioned above. However, to the extent that there is a growth in such websites, the “state of the art” in safety websites will be raised and other manufacturers may be inclined to provide much more information than they currently do.

When should new or improved warnings and instructions be offered to prior customers? When do you need to tell the government?

New and improved warnings and instructions might be considered safety improvements, or they might be considered an admission that the earlier warnings and instructions were defective. The common law is clear that manufacturers are not required to offer safety improvements to prior customers if the earlier product was not defective.

The problem is how do you decide whether the earlier product might be considered defective and the new safety information used as evidence to support the claim? It is a difficult decision and one that is fraught with potential problems, no matter what you do.

Certainly, if the earlier warnings and instructions are compliant with the standards and the law and the new versions are just updated and made a little better, then it is arguable that these are just improvements. However, if the earlier warnings and instructions did not comply with the standards or law and were very bad, or if there have been a number of lawsuits alleging a failure to warn or several jury verdicts ruling the warnings defective, then the new warnings and instructions might be more than just safety improvements.

This is an important analysis where competent defense counsel can also provide valuable assistance in addition to your safety counsel. Since you don’t know where any future case will be brought, it is hard to know which state’s law to consider. The best approach is to consult with counsel who you trust and who is familiar with your products and your litigation.

Then the question is, in the case of consumer products, do you need to inform the U.S. Consumer Product Safety Commission, Health Canada or the Australian authorities about the new warnings and instructions? The reporting laws are different from country to country, and you need to consider whether the issuance of new warnings and instructions to prior customers could arguably be considered a “recall” and create a reporting responsibility to any of these agencies. For more information on the reporting requirements, see Ross, New Safety Laws May Result in Significant New Liability, In-House Defense Quarterly, Fall 2011.

If customers are not properly using or maintaining a product and not following the label or manual, should you send out a reminder to customers about the necessity to follow the instructions and precautions?

In this question, we assume that the earlier warnings and instructions are adequate. They just aren’t being followed. This is always foreseeable. But that doesn’t create a post-sale duty. However, once we become aware of this fact and accidents or near
misses have occurred as a result, a post-sale duty could arise in some states. See Ross and Soule, Post-sale Duties: A Minefield for Manufacturers, In-House Defense Quarterly, Fall 2006.

If accidents have occurred and there is some way to get the reminder to your customers, it is probably a good idea to do it. If you can’t find your customers easily, then maybe placing a reminder on your website is appropriate.

Of course, a manufacturer may decide to redesign future products so that there is less of a hazard when users do not follow the warnings. In that case, they then have another difficult decision: whether to retrofit old products with the new designs, such as a new safety guard, if that is possible.

Your instructions warn users not to service a product or to perform certain repairs. But you know that users are going to do it anyway. What do you do?
When you tell users not to do something but you know that they will do it anyway, and there are safe and unsafe ways to do it, then you might be inclined to tell them how to do it safely. But then aren’t you “authorizing” them to do the service or repair that you don’t really want them to do? On balance, as long as it is reasonably foreseeable that they will do the servicing and repairs and there are hazards in them doing so, then I would continue to encourage them strongly not to do it, but then add some basic instructions on how to do it correctly and safely.

One way to handle this is to state that the repair or the service instructions are for professional service personnel and not for the consumer even though the instructions are contained in the manual that accompanied a product.

Conclusion
There are many other questions that I have been asked over the years and to which I have had to supply answers. There is very little law on these important but narrow issues. And most of them are not answered by any of the standards. Despite that, a manufacturer must consider them and make a decision.

While designing a safe product is not an easy task, providing adequate warnings and instructions is a tough job. It is so easy to add words, make a label bigger, provide more illustrations in a manual and do other things that some jury might believe would have prevented an accident.

While manufacturers shouldn’t be paralyzed by the fear of not providing adequate warnings and instructions, they should not take this responsibility lightly. They should use competent legal and technical personnel to help, especially on the difficult kinds of questions represented above.

In addition to providing information that hopefully will reduce the risk of harm, better warnings and instructions might also help make a product more marketable in that it will be perceived by customers to be easier to assemble, use and maintain. And they will certainly be easier for defense counsel to defend if an incident occurs.