

## ADDITIONAL RESOURCES—GENERAL STUDIO SAFETY

### Books and Journals

American Scientific Glassblowers Society. Methods and materials. [Toledo, OH]: American Scientific Glassblowers Society, [1995]. 1 v. Note: Materials, methods, safety hazards.

Bray, Charles. Ceramics and glass: a basic technology. Sheffield, England: Society of Glass Technology, 2000. 276 p. Note: "Written for students, potters and glassmakers working individually or in small studios." Excellent source for basic chemistry of glass; also information about raw materials, kilns, refractory and insulating materials, adhesives, color, etc. Chapter on safety, pp. 233-237.

Bray, Charles. Dictionary of glass: materials and techniques. 2nd ed. London: A & C Black; Philadelphia: University of Pennsylvania Press, 2001. 256 p., [16] p. of plates. Background information on materials, process, and techniques. Includes a section on safety, pp. 204-206, plus entries for silicosis, pneumoconiosis, acids, as well as many other safety related topics.

Cheremisinoff, Paul N. A guide to safe material and chemical handling. Cheremisinoff, Paul N.; Hoboken, N.J : Wiley, 2010. 480 pp.

Clark, Nancy. Ventilation. By Nancy Clark, Thomas Cutter, and Jean-Ann McGrane. New York: Lyons & Burford, [n.d., 1986?] viii, 117 p. Note: Originally published: New York: Center for Occupational Hazards, 1984.

Dunham, Bandhu Scott. Contemporary Lampworking: A Practical Guide to Shaping Glass in the Flame. 3rd ed. Prescott, AZ: Salusa Glassworks, 2002. Includes artistic and technical information and a good resource list. "Setting up a lampwork studio," pp. 57-80; "Teaching studio recommendations," pp. 465-468; "Health and safety for lampworkers," p. 229-244; "Chemical hazards," p. 481-486. <http://www.salusaglassworks.com/book.html>

Dunham, Bandhu Scott. Arte de vidrio contemporaneo usando el soplete: una guia practica para darle forma al vidrio con la flama. (Spanish edition, 2002). Eugene, OR: Fuego Libre Pub., 2006. 2 v. 524 pp.

Finch, Joe. Kiln construction: a brick by brick approach. London: A & C Black; Philadelphia: Univ of Pennsylvania Press, 2006. 112 p. Note: Includes a chapter on Health and safety.

Fraser, Harry. The electric kiln: a user's manual. 2nd ed. London: A & C Black; Philadelphia: University of Pennsylvania Press, 2006. 128 p. (Ceramics handbooks). Note: Includes a chapter on "Safety considerations."

Grimmett, Henry. "Health and Safety Concerns for Lampworkers," IN: Dunham, Bandhu Scott. Contemporary lampworking: a practical guide to shaping glass in the flame. Vol. 3, 3<sup>rd</sup> ed. Prescott, AZ: Salusa Glassworks, 2010, pp. 298-311.

Hart, M. (Mostyn). Manual of scientific glassblowing. CD-ROM version. Compiled by Colin F.M. Smith. [St. Helens, Merseyside, England]: British Society of Scientific Glassblowers, 2002. 1 CD-ROM. Note: This is an electronic version of the book, published in 1992. "Safety -- The Hazards of Glassblowing and Allied Operations," pp. 49-85.

Kervin, James. More than you ever wanted to know about glass beadmaking. 5th printing, rev. ed. Livermore, CA: GlassWear Studios, 2003. 294 pp. Note: "Safety" pp. 237-254; also includes studio setup: "Torches and gas systems, pp. 11-38; lampworking tools, pp.39-50; kilns and glory holes, pp. 51-66.

Lewton-Brain, Charles. The Jewelry Workshop Safety Report. Calgary, Alberta: Brain Press, 1998. "This book reviews issues of studio safety and discusses strategies for recognizing risks in the jewelry workshop, and for reducing hazards by using substitution of materials or processes. The premise is that any reduction in risk improves safety conditions for the goldsmith and artist." <http://brainpress.com>. Extracted articles are also published at the Ganoksin Project: <http://brainpress.com/Ganoksin.html#Articles> or <http://www.ganoksin.com/borisat/directory/library/source/12/612/intro/1>

McCann, Michael. Artist beware. [2nd ed.]. New York: Lyons Press, 1992 [2001 prtg.?]. xii, 564 p. Note: Assumed to be a reprint of the 1992 ed.; text appears to be unchanged. 2<sup>nd</sup> ed. originally published: New York, NY: Lyons & Burford, 1992. Glass arts: p. 469-479.

McCann, Michael. Health hazards manual for artists. 5th rev. and augm. ed. Guilford, Conn.: Lyons Press, 2003. viii, 168 p.  
Stained glass and glassblowing: p. [71]-73.

Moss, C. E. Health hazard evaluation report: No. HETA 88-299-2028, Louie Glass Factory, Weston, West Virginia. Springfield, VA: National Technical Information Service, 1990. 45 p. Written by C. E. Moss, R. L. Tubbs, L. L. Cameron and E. Freund, Jr.

Rossol, Monona. The artist's complete health and safety guide. 3rd ed. New York: Allworth Press: Graphic Artists Guild, 2001. x, 405 p. Note: Glass, stained glass, enameling and other glass surface treatments: p. 261-280. 1<sup>st</sup> ed. 1990. Supplemental "data sheets": <http://www.artscraftstheatersafety.org/datasheets.html>

Rossol, Monona. Safety training manual: our right-to-know program. Brewster, NY: Edge Publ. Group, 1991. 106 p. Note: "Portions of this book originally appeared in the May 1991 issue of Professional Stained Glass magazine."

SOEH Conference on Health Hazards in the Arts and Crafts (1978: Washington, D.C.) Proceedings. Editors: Michael McCann; Gail Barazani. Washington: Society for Occupational and Environmental Health, 1980. xvii, 232 p.  
Stained glass workshop practice: p. 28-35; 107-117.

Waller, Julian A. Safe practices in the arts & crafts: a studio guide. 2d ed. New York: College Art Association of America, 1985. 79 p.  
Chiefly tables. 1st ed. in 1978, by Gail C. Barazani. Includes: Glassmaking: p. 40-42; Cold glass, stained glass, lampwork: p. 43-4.

Woolley, Frank E., Glass Technology for the Studio. Corning, NY: The Studio of the Corning Museum of Glass, 1999. Notes from lectures given at The Studio on compositions and properties, breakage, annealing and compatibility, defects, safety, and filling and melting.

**Selected additional bead, lampworking, and glassmaking books that highlight safety information:**

Adams, Kimberley. The complete book of glass beadmaking. 1st ed. NY: Lark Books, 2005. "Safety equipment and clothing," pp. 25-26; "Setting up and working in your studio," pp. 27-29.

Birkhill, Frederick. The art of flameworking. By Frederick Birkhill and Shane Ferro. [S.l.: the authors, 2011]. [61] leaves. Note: Version 4 includes lampworking health and safety guidelines.

Carberry, Edward. Glassblowing: an introduction to artistic and scientific flameworking. 3<sup>rd</sup> ed. Marshall, MN: MGLS Publishing, 2003. "Appendix A: Safety Precautions," pp. 285-289

Cohen, Cecilia. The glass artist's studio handbook: traditional and contemporary techniques for working with glass. Beverly, Mass.: Quarry Books, 2011. 176 p. (Back yard series)  
Note: "Planning the studio layout" briefly includes torch and kiln safety, fire hazards, ventilation, etc., pp. 12-21.

Cox, Valorie. Frit secrets: a flameworker's guide to using reactive glass frits. [S.l.]: blurb.com, 2009. 119 pp. Note: "Tools and equipment" includes some safety information, pp.30-35.

Crook, Morgan. The neon engineers notebook. By Morgan Crook & Jacob Fishman. 2nd ed. Northbrook, IL : Lightwriters Neon, 2007. 233 p. "Better eye protection," pp. 105-108.

Fritts, Drew. Torchworked marbles. 1st ed. Springfield, MO : Dichro-Moon Pub., 2004.  
Note: "Getting Started," pp. 13-114 includes equipment, safety, setup workspace, record keeping, etc.; Safety section, pp. 85-88.

Gordon, Joan Bernadette. Creative lampwork: techniques and projects for the art of melting glass. Lewes, East Sussex: Guild of Master Craftsman Publications, 2010. 175 p.  
"Creating a safe workplace," pp. 26-29; Safety checklist, p. 41.

Halem, Henry. Glass notes: a reference for the glass artist. 4th ed. Kent , OH: Franklin Mills Press, 2006. 352 p. <http://glassnotes.com/notes.html>

Hart, Mostyn. Manual of scientific glassblowing [electronic resource]. CD-ROM version/compiled by Colin F.M. Smith. St. Helens, Merseyside, England: British Society of Scientific Glassblowers, 2002. 1 CD-ROM. Note: CD ROM version of the book, published in 1992. Includes bibliographical references.

Hoyt, Homer L. Glassblowing: an introduction to solid and blown glass sculpturing. Golden, Colo. : Crafts & Arts Publishing Co., 1989. vii, 267 p. Bibliography: p. 263.

Jenkins, Cindy. Making glass beads. Asheville, NC: Lark Books, 1997. Note: "Setting up a workstation," pp. 19-23; "Safety tips," pp. 23-25.

Mears, Elizabeth. Flameworking: creating glass beads, sculptures & functional objects. New York: Lark Books, 2003. 174 pp. Note: "Setting up your studio" includes safety tips, pp. 13-20.

Schmuck, Johnathon. The joy of coldworking: a guide to grinding, smoothing, and polishing blown and fused glass. Clemmons, N.C.: Four Corners International Inc., 2009. 208 p.

Stanton Harris, Martyn. Practicing stained glass safely. Sheffield: Society of Glass Technology, 2000. 48 p. Note: Includes bibliographical references.

Tarlow, Paul. Coldworking glass without machines: a complete guide to creating better fused, lampworked & blown glass artwork without spending a small fortune on big equipment. 1st ed. Austin, Tex.: IZM Studio, 2011. 46 p. Note: Includes chapters on workspace and hygiene, pp. 20-21; how to use hand coldworking tools & materials, pp. 23-32; safety, pp. 43-44.

Tettinger, Corina. Passing the flame: a beadmakers guide to detail and design. Friday Harbor, WA: BonzoBucks & Books Pub. 2002. 202 pp. Safety, pp. 18-19.

Townsend, Milon. Advanced frameworking: volume I. Hilton, NY: Blue Moon Press, 2001. Note: "Tools" chapter (tools, work area setup, etc.), pp. 13-26; includes "Protection and Safety," pp. 21-23.

Walker, Brad. Contemporary fused glass : a guide to fusing, slumping, and kilnforming glass. Clemmons, N.C. : Four Corners International, 2010. 208 p. Note: Includes bibliographical references. "Health and Safety," pp. 194-198. Warm glass website: <http://www.warmglass.com/>

Warhaftig, Jeri. Creating glass beads: a new workshop to expand your beginner skills and develop your artistic voice. 1st ed. New York: Lark Crafts, 2011. 144 p. Note: "Basics," pp. 6-13 include "Safety," pp. 11-12.

Weiner, Kay Bain. Contemporary glass enameling: fusing with powders, paints, and frit. 1st ed. Carlsbad, CA: Eastman Publ., 2005. 167 p. Note: Includes a chapter on "Safety in the work area."

### **Periodical Articles – General Resources**

"Art Glass Worker Hazards," Art Hazard News, v. 17, no. 4, 1994, p. 7.

Babbitt, Jeff. "Glass Shop & Related Safety Tips: Quick Reference Guide." Fusion, v. 46, no. 1, Feb. 1999, pp. 30-31. Note: Journal of the American Scientific Glassblowers Society

Bako, Pat. "Demo: Secrets of the Coldshop Exposed." The Glass Art Society Journal, (2007), pp. 127-128, ill. Note: Mainly about workshop safety, and the use of grits for polishing; also includes tips from other artists.

Barazani, Gail. "From Fumes to Foam: More Glass Safety Tips." The Crafts Report, v. 16, no. 176, Nov. 1990, p. 4

Barazani, Gail. "More Questions about Glass and Safety." The Crafts Report, v. 16, no. 171, June 1990, p. 4.

Bernard, Eddie. "Technical Article: Shop Maintenance." GAS News, v. 18, no. 2, March 2007, p. 5, ill.

Bernard, Eddie. "Technical Issues: Ventilation." GAS News, v. 20, issue 1 (Jan./Feb. 2009), p. 5. Note: Discusses the need for proper ventilation.

Billiot, E. "Detection of NO<sub>2</sub> by Open Path FTIR during the Glassblowing Process," Proceedings of the American Scientific Glassblowers Society, June 1996.

Bowers, Bryan. "In the Studio." The Glass Art Society Journal, 1997, pp. 94-104, ill. Note: Talks at the Tucson conference covering studio health and safety, legal tips for glass artists, glass and the Internet.

Bray, Charles. "Safety." British Artists in Glass Newsletter, no. 4, Feb. 1978, pp. 16-26.

Burke, Nancy E. "Cool Tools." Common Ground: Glass, (Autumn 2007), p. 10, ill. Note: Newsletter of the International Guild of Glass Artists Inc. Includes earmuffs, safety goggles, and a gas duster."

Burke, Nancy E. "Exploring Studio Design: Part Two." Common Ground: Glass, Winter 2005, pp. 7-8, ill. Note: Newsletter of the International Guild of Glass Artists Inc. Utilities and safety.

Burke, Nancy E. "Protection Tips for Your Fingertips!" Glass Craftsman, no. 198, Oct. /Nov. 2006, pp. 27-28, ill. Note: Includes finger gloves, safety glasses, and water drip.

Butler, Robert, Jr. "Avoiding Repetitive Stress Injuries." Glass Line, v. 12, no. 2, Aug./Sept. 1998, p. 7+. Note: Tips on body mechanics for glassworkers.

Chouinard, Joanne. "Fire Safety: Make Sure That Creative Spark Doesn't Burn Your Studio Down!" Glass Craftsman, no. 159, April/May 2000, pp. 16-17+, ill.

Chouinard, Joanne. "Keeping an Eye on Ergonomics." Glass Craftsman, no. 164, Feb./March 2001, pp. 22-25+, ill. Note: Health and safety issues.

Chouinard, Joanne. "The Long and Short (Term Exposure) of It!" Glass Craftsman, no. 162, Oct./Nov. 2000, pp. 36-38+. Note: Health and safety issues.

Chouinard, Joanne. "Personal Protective Equipment and the Studio Environment." Glass Craftsman, no. 161, Aug./Sept. 2000, pp. 26-29+. Note: Advice on safety.

Cogen, David. "Torch Care, Maintenance and Repair." The Bead Release, v. 7, no. 4, Fall 2000, pp. 8-12.

Conway, Judith Finn. "Studio Safety: Respirator for Glass Artists." Batch, v. 5, no. 3, Feb./March 2007, pp. 12-15, ill.

Note: Supplement to Glass Craftsman, no. 200, Feb./March 2007. Types, care, and storage of respirators.

Daily, Marty. "Kiln Corner with Marty Daily: Kiln Safety." Glass Art, v. 22, no. 1, Nov./Dec. 2006, pp. 20-24, ill.

"Do You Know Where Your Kiln (Temperature) Is Tonight?" Glass Line, v. 18, no. 2, Aug./Sept. 2004, pp. 12-13+, ill. Note: Switches, controllers, thermocouples, and cones.

Dodson, Ricky Charles. "It's Cheaper Than a New Pair of Eyes!" Glass Line, v. 8, no. 6, April/May 1995, p. 1. Note: The need to wear didymium glasses.

"Downstream effects." ACTS Facts, v. 13, no. 12, Dec. 1999, p. 1. Note: Warns of ways that the "lead, cadmium, and arsenic...commonly found in glass colorants and frits" may become airborne.

Eckes, Jeff. "Beadmaking: Safety in the Torch Working Studio." Glass Patterns, v. 13, no. 4, Winter 1997/1998, pp. 69-71.

Engst, Adam. "Ergonomics and the Beadmaker." The Bead Release, v. 3, no. 3, July 1996, pp. 8-10. Note: Carpal tunnel syndrome, etc.

"Eyewear for Glass, Ceramic, & Metal Workers: Updated Recommendations." ACTS Facts, v. 14, no. 4, April 2000, pp. 3-4. Additional info: Arts, Crafts and Theater Safety. Glowing-hot glass emits infrared radiation.

Fallon, Fleming. "Health & Safety: Hand and Foot Protection in Your Studio." Stained Glass News, issue 87 (Nov. 2009) p. 9, ill.

Note: Also includes suggestions for keeping the workspace clean.

Fallon, MD, Fleming. "Health & Safety...Filter Masks and Material Safety Data Sheets." Stained Glass News, issue 93 (Jan. 2009), p. 8, ill. Note: Includes working with chemicals.

Foster, Robin J. "Romance with Color: Making Your Own Custom Colors." Glass Line, v. 25, no. 2 (Aug./Sept. 2011), pp. 44-46, ill.

Topics include preparation; tips, tricks, and things to avoid; soft glass recipes; and additional resources.

Grimmett, Henry. "Phase Separation, Good or Bad?" Glass Line, v. 17, no. 5, Feb./March 2004, pp. 1-2. Note: Lampworking and flameworking tips.

Grimmett, Henry. "Propane or Methane! What Is in Your Studio?" Glass Line, v. 17, no. 6, April/May 2004, pp. 1-3.

Grimmett, Henry. "Relieving Stress!" Glass Line, v. 17, no. 3, Oct./Nov. 2003, pp. 8-9+, ill. Note: Lampworking and annealing tips.

Grimmett, Henry. "Tech Talk." The Flow, v. 1, no. 1, Oct.-Dec. 2002, pp. 25-26. Note: "...Henry Grimmett gives an insightful look at torch setup."

Grimmett, Henry. "Tech Talk." The Flow, v. 1, no. 2, Spring 2003, pp. 38-40. Note: "Insightful look at the chemistry of glass colorants."

Grimmett, Henry. "Understanding Lampworker Safety." Glass Line, v. 20, no. 1, June/July 2006, p. 36+, ill.

Halem, Henry. "Panel: The Candle Went Out and the Canary Died -- Should I Open the Window a Little More?" The Glass Art Society Journal, 2003, p. 132, ill. Note: Safety in the glass studio.

Hanlon, Dave. "Safety Practices with Laboratory Glassware." Chemical Health & Safety,

Nov./Dec. 1999, pp. 17-20. VF: Glass Making -- Occupational Hazards

Henley, Vince. "Flue Reversal: A Potential Carbon Monoxide Hazard." The Glass Bead, v. 18, issue 4 (Autumn 2011), p. 42.

Henley, Vince. "Studio Safety: Connections." The Glass Bead, v. 18, issue 2 (Spring 2011), p. 22, ill. Note: Standards and codes regulating natural gas connections.

Henley, Vince. "Studio Safety: Do I Need a Respirator?" The Glass Bead, v. 14, issue 3 (Summer 2007), p. 37.

Henley, Vince. "Studio Safety: Fire." The Glass Bead, v. 17, issue 3 (Summer 2010), pp. 24-25, ill. Note: Includes burning object fires, equipment failure fires, and fire extinguishers.

Henley, Vince. "Studio Safety: Lampworking & Pregnancy." The Glass Bead, v. 17, issue 4 (Autumn 2010), pp. 28-29.

Henley, Vince. "Studio Safety: LP Gas in Apartments." The Glass Bead, v. 18, issue 3 (Summer 2011), p. 36. Note: On the safe use of the gas, also known as propane.  
PER NK3650.B362

Henley, Vince. "Studio Safety: [Part One]: Hazardous Substances and Alphabet Soup." The Glass Bead, v. 16 [i.e. 15], issue 2 (Spring 2008), pp. 26-27, ill. Note: Terminology used to describe levels of toxicity.

Henley, Vince. "Studio Safety: Part Two: Hazardous Substances and Alphabet Soup." The Glass Bead, v. 15, issue 3 (Summer 2008), pp. 26-27, ill. Note: Discussion of three related concepts: toxicity, hazard, and risk.

Henley, Vince. "Studio Safety: Part Three: Hazardous Substances and Alphabet Soup." The Glass Bead, v. 15, issue 4 (Autumn 2008), pp. 34-35, ill. Note: Topics include coating, copper, palladium, enamels, sodium bicarbonate, and scavo.

Henley, Vince. "Studio Safety: Part Four: Hazardous Substances and Alphabet Soup." The Glass Bead, v. 16, issue 1 (Winter 2009), pp. 30-31, ill. Note: The techniques of etching, sandblasting, and grinding, including some of their hazards.

Henley, Vince. "Studio Safety: Philosophy of Safety." The Glass Bead, v. 16, issue 2 (Spring 2009), pp. 32-33, ill. Note: "Underlying philosophy that can help keep glass beadmakers safe."

Henley, Vince. "Studio Safety: Propane (LP Gas) Storage." The Glass Bead, v. 18, issue 1 (Winter 2011), p. 23. Note: Mainly on hazards and regulations.

Henley, Vince. "Studio Safety: Respirators Revisited." The Glass Bead, v. 17, issue 2 (Spring 2010), pp. 22-23, ill. Note: Also includes explanation of airborne hazards.

Henley, Vince. "Studio Safety: Safety Advocacy." The Glass Bead, v. 19, issue 1 (Winter 2012), p. 19. Note: The importance of studio safety, and summary of the author's series of 16 articles on this topic.

Henley, Vince. "Studio Safety: Studio Safety Folklore and Fuel Gas." The Glass Bead, v. 16 [i.e. 15], issue 1 (Winter 2008), pp. 28-29, ill. Note: Focus on natural gas and liquefied petroleum (LP), also known as propane.

Henley, Vince. "Studio Safety: The Regulatory Environment." The Glass Bead, v. 15, issue 4 (Autumn 2007), p. 40. Note: Regulations, codes, and standards.

Herrell, J. C. "Join JC and MZ on Their Excellent Enamel Adventure!" The Flow, (Winter 2008), p. 36+, ill. Note: Properties of enamels, with focus on safety factors.

Heynis, Molly. "A Beginner's Glass Beadmaking Toolbox -- Part 1." Beadmaker, no. 181, Dec. 2003/Jan. 2004, pp. 4-5, ill. Note: Supplement to Glass Craftsman, no. 181, Dec. 2003/Jan. 2004. Includes tips on safety, clothing, torch choices, and instruction.

Hinger, Michele. "Safety Savvy: Minimizing the Risks." Glass Art Magazine, v. 2, no. 1, Nov./Dec. 1986, pp. 24-25+

Howard, Arnold. "Hot and Bothered? Kiln Worries." Glass Craftsman, no. 219 (Autumn 2010), p. 23, ill. Kiln maintenance tips.

Howard, Arnold. "The Kiln Corner -- Electric Circuit Breakers." The Flow, v. 10, no. 1 (Spring 2012), p. 60, ill. Note: Author answers readers' questions.

Howard, Arnold. "The Kiln Corner -- Electrical Basics." The Flow, (Autumn 2011), p. 52, ill. Note: Questions and answers on voltages and circuits.

Howard, Arnold. "The Kiln Corner -- Kiln Diagnostics." The Flow, (Autumn 2010), p. 69, ill. Note: Questions and answers relating to kiln repair, controller, and relay.

Howard, Arnold. "The Kiln Corner -- Loading a Glass Kiln." The Flow, (Spring 2010), p. 70, ill. Note: Author answers questions.

Howard, Arnold. "The Kiln Corner -- Observing a Kiln during Firing." The Flow, (Winter 2009), p. 77, ill. Note: Questions and answers.

Howard, Arnold. "The Kiln Corner -- Starting Out with Your First Kiln." Glass Patterns Quarterly, v. 27, no. 2 (Summer 2011), p. 67, ill. Note: Includes fumes emissions, safety glasses, temperature controller, programming errors, cord sets, and suggestions for inexperienced users.

Kerkvliet, Brian. "Bead Basics, Part 1." The Bead Release, v. 1, no. 4, Oct. 20, 1994, pp. 8-9. Includes safety.

Kerkvliet, Brian, "Beads From the Beginning," Glass Art, v. 10, no. 1, Nov./Dec. 1994, pp. 4-9.

Korfhage, J. S. "A Guide to Safe Handling and Design of Scientific Glassware," Proceedings of the 35<sup>th</sup> Symposium on the Art of Scientific Glassblowing, American Scientific Glassblowers Society, 1990, pp. 33-38.

Lawrie, John. "Safety Sense." Craft Work, no. 6, Winter 1984, p. 28. Note: Glassmaking hazards.

Layton, Peter. "Eyes and Safety." British Artists in Glass Newsletter, no. 9, July 1979, pp. 20-21.  
Note: Glassblowers exposed to infrared radiation.

Logan, Kristina. "Special Tools, Special Care." Lapidary Journal, v.53, no. 7, Oct. 1999.

McCloskey, E. S. "Let's Make an Exhaust Hood." Glass Line, v. 9, no. 1, June/July 1995, p. 1+  
Note: For lampworking.

Meyers, G. E. and Gregar, J. S. Health Hazards in the Glass Shop," Proceedings of the 35<sup>th</sup> Symposium on the Art of Scientific Glassblowing, American Scientific Glassblowers Society, 1990, pp. 19-23.

Mominee, Terry. "Tool Tips by Terry: Being Prepared...and Proactive." Stained Glass, v. 105, no. 2 (Summer 2010), p. 96, ill. Quarterly of the Stained Glass Association of America.  
Inspection and maintenance of personal protective gear, power tools, hand tools, shop tables, materials storage, and safety equipment.

Moss, C. Eugene and Burton, Nancy Clark. "NIOSH Health Hazard Evaluation Report, HETA 98-0139-2769, The Society of Glass Beadmakers, Corning, NY, p. iv. "Exposures during Glass Beadmaking" 2004. <http://www.cdc.gov/niosh/hhe/reports/pdfs/1998-0139-2769.pdf>

"Protect Yourself." Ausglass Magazine, Winter 1990, pp. 23-26. Note: Health and safety measures for craftsmen.

"A Review: Health & Safety Considerations." Glass Art Magazine, v. 3, no. 2, Jan./Feb. 1988, pp. 50-51

"Safety." British Artists in Glass Newsletter, [Aug.?] 1983, pp. [29-34]

"Safety Topics: Inhalation of Fumes from Silica Working Could Generate Nitric Acid in Lung Tissues." Hot Gas, v. 5, no. 3, Winter 1998, p. [19], ill. Note: Scientific Glassblowers Association of Australia.

Schell, James. "Eye Care for the Hot Glass Artist." Glass Line, v. 8, no. 3, Oct./Nov. 1994, pp. 9-10.

"Silver Nitrate Warning." The Bead Release, v. 3, no. 3, July 1996, pp. 11-12. Hazards in using the material in beadmaking.

Simmons, Robert. "Safety and Soft Glass: Heavy Metals." The Glass Bead, v. 18, issue 1 (Winter 2011), pp. 7-9+, ill. Note: Health effects of working with metals and metallic compounds.

Spencer, Jeffrey E. "Preventing Stiffness and Pain in the Lampworker." The Flow, v. 1, no. 2, Spring 2003, pp. 34-36, ill. Note: Reprinted from Contemporary Lampworking: A Practical Guide to Shaping Glass in the Flame by Bandhu Dunham..

Spielholz, Peregrin. "Identifying and Controlling Ergonomic Risks in Glassblowing." The Glass Art Society Journal, 1993, pp. 112-119.

Stern, Suzanne B. "Annealing Glass Beads." Bead & Button, no. 9, June 1995, pp. 23-24. ????

Trautman, Paul. "Lampworking Torches...Size Really Does Matter." Glass Line, v. 15, no. 2, Aug./Sept. 2001, p. 11.

Turley, Kristian. "The Importance of Protecting Your Eyes." Glass Line, v. 16, no. 5, Feb./March 2003, p. 8.

Turley, Kristian. "Lampworking Eye Protection." Common Ground: Glass, Spring 2003, p. 11-12.

Wolfersberg, Stan. "Beading Safety: Hot Releases from NIOSH & AIHAJ." The Bead Release, v. 7, no. 2, Spring 2000, p. 9.

Wolfersberger, Stan. "Glass Beadmaking Safety Issues," The Bead Release, v. 8, issue 4, Fall 2001, pp. 16-25. Note: Includes an extensive bibliography of references, websites, and books.  
PIECE IN HAND

Wolfersberger, Stan "Heads Up! Ventilation Basics." The Bead Release, v. 6, no. 4, Fall 1999, p. 6.

Wolfersberger, Stan. "Safety Information – NOx Emissions from Your Torch." The Bead Release, v. 5, no. 4, Fall 1998.

"Your Health and Safety." The Bead Release, v. 4, no. 3, Summer 1997, pp. 6-7. Note: Eyewear for filtering out infrared radiation.

"Your Health and Safety." The Bead Release, v. 4, no. 4, Fall 1997, pp. 14-16. Note: Includes information on proper eye protection for hot-glasswork.

## **Related Materials**

"Acid Etching Safety." Professional Stained Glass, v. 8, no. 4, May 1988, pp. 20-21

Ash, Vicki. "An Introduction to Stained Glass: The Breakable and Unbreakable Rules for Stained Glass Crafters." Glass Patterns Quarterly, v. 25, no. 1 (Spring 2009), p. 6+, ill.  
Note: Includes eight rules, mainly relating to studio safety.

Baker, Bruce. "Show Talk: Booth Design and Merchandising – Final Considerations to Ensure Safety and Success." Glass Art, v. 27, no. 2 (Mar./Apr. 2012), p. 30, ill.

Baker, Bruce. "Show Talk: Booth Design and Merchandising -- Finding the Right Amount and Placement for Lighting." Glass Art, v. 27, no. 1 (Jan./Feb. 2012), p. 55, ill.  
Note: Also includes considerations for lighting safety.

Barazani, Gail. "A Few More Words about Stained Glass Safety." The Crafts Report, v. 16, no. 175, Oct. 1990, p. 4+.

Bernard, Eddie. "Gas-Fired Equipment Safety System Check and Maintenance." GAS News, v. 17, no. 2, March 2006, p. 3.

- Bernard, Eddie. "Technical Issues -- On/Off vs Proportional." GAS News, v. 20, issue 4 (June/Aug. 2009), p. 3. Note: Fuels and combustion.
- Browne, Marilyn. "Lead: Safe Work Practices for the Stained Glass Artist." Stained Glass, v. 83, no. 4, Winter 1988, pp. 306-312.
- Bryan, Marilyn. "Stained Glass Safety." Firing Line, v. 3, no. 3, May/June 1992, pp. 9-10. Additional info: Orton Firing Institute, Westerville, OH
- Caba, Randall. "Three Neon Myths Dispelled." Sign Builder Illustrated, no. 53, Sept./Oct. 1998, pp. 91-96. Note: Energy use, cost, and safety issues of neon.
- Cage, Tom. "The Why and How of a Jacob's Ladder." Signs of the Times, v. 218, no. 4, April 1996, pp. 222-225. Note: Safety device in a neon shop.
- Carrara, Jessy. "Safety in the Studio: Lead Free Tinning Flux." Common Ground: Glass, Fall 1996, pp. 6-7.
- Davis, Paul R. "Electrifying Issues: Caught in the Net." Sign Builder Illustrated, no. 48, Nov./Dec. 1997, p. 26+, ill. Note: Neon safety issues.
- Dines, Dody. "Toxic Immune Syndrome: Chronic Fatigue and Chron's Disease--Heavy Metal Overload." Artists in Stained Glass Canada Bulletin, Aug. 2000, p. 5.
- Dobbins, Norman. "Glass Etching, Parts 3-5." Glass Craft News, three-part series: v. 1, no. 9, 1985--v. 1, no. 11, 1985. Note: Shading; sandblasting equipment; blasting cabinets, abrasives, safety equipment.
- Drier, Tracy O. "The Firewagon Concept for Public Outreach." Fusion, v. 53, no. 3 (Aug. 2006), pp. 21-28, ill. Note: Journal of the American Scientific Glassblowers Society. "Safe, efficient and portable glassblowing podium."
- Dundas, Bill. "Neon Safety: Despite Dark Prophecies, Neon Flourishes and Endures." Signs of the Times, v. 219, no. 9, Aug. 1997, pp. 108-111
- Ferrell, Ginger. "Stanton Harris, Martyn, Practicing Stained Glass Safely." The Journal of Stained Glass, v. 26, 2002, pp. 206-207. Note: British Society of Master Glass Painters. Book review.
- French, Jennie. "Studio Practices." Professional Stained Glass, v. 6, no. 10, Dec. 1986, p. 92  
Note: Safety factors in the stained glass studio
- Goga, Larry. "Moving the Studio's Glass--A Success Story." Common Ground: Glass, Winter 1998, p. 35, ill. Note: Newsletter of the International Guild of Glass Artists Inc. Describes construction and building of crates for safely moving art glass supplies.
- Grimmett, Henry. "Building an Affordable Polariscope." The Flow, (Autumn 2011), pp. 50-51, ill. Note: Step-by-step making instructions.

Grimmett, Henry. "The Science of Working with Glass Alchemy, Ltd. Boromax Colors." The Flow, v. 1, no. 4, Autumn 2003, pp. 48-51, ill. Note: Includes series 100 Red, 200 Orange, 300 Yellow, and 400 Green.

Grimmett, Henry. "The Science of Working with Glass Alchemy, Ltd. Boromax Colors." The Flow, v. 2, no. 1, Winter 2004, pp. 53-56, ill. Note: Includes series 400 Green, 500 Blue, 600 Indigo, 700Violet, 800 Brown, and 900 Neutral.

Harbridge, Michael. "For the Classroom: Alternative Ceramic Firing: Adding Hair, Feathers, and Glass." Fired Arts & Crafts, v. 57, issue 9 (Sept. 2011), pp. 28-34, ill.  
Topics include creating the shapes, adding glass, kiln concerns, selection of hair and feathers, and safety.

"Health and Safety: Lead and Legislation." The Firing Line, v. 1, no. 2, Nov./Dec. 1990, p. 10.  
Additional info: Orton Firing Institute, Westerville, OH

"Health & Safety: Toxic Metals and Kilnformed Tableware." The Bullseye Bulletin, Summer 1995, pp. 8-9.

"Health and Safety: Crystalline Silica." The Firing Line, v. 1, no. 1, Fall 1990, p. 6.  
Additional info: Orton Firing Institute, Westerville, OH

Heilman, Bronwen. "The Stringer Test -- Finding Compatibility in Glass." The Flow, v. 9, no. 5 (Winter 2011), pp. 70-71, ill. Note: Step-by-step demonstration by the author.

Hoover, Richard L. "Lead Safety." Stained Glass Quarterly, v. 85, no. 4, Winter 1990, pp. 258-259.

Jones, Kathleen H. "Safe Sandblasting." Glass Art Magazine, v. 2, no. 7, Nov./Dec. 1987, pp. 22-23+.

Kervin, Jim. "Why?" The Glass Bead, v. 15, issue 4 (Autumn 2008), pp. 22-25, ill. Note: Artist talks about his career in glass; includes flameworking tools and supplies.

"Kiln Safety and Firing Practices." Westerville, OH: The Edward Orton Jr. Ceramic Foundation, 1997, 22 pp., ill.  
VF: Ceramics -- Technique

Lauwer, Inge. "Safe Art: Sustainability in the Glassblowing Studio—Is There an Afterlife?" This Side Up!, no. 10, Summer 2000, pp. 22-23, ill. Note: Valkenswaard, the Netherlands

"Legionnaire's Disease from Wet Cutting and Grinding." Art Hazards News, v. 10, no. 3, 1987, p. 4.

Malenda, James. "One Approach to Large Scale Enameling." Glass on Metal, v. 13, no. 1, Feb. 1994, pp. 8-11, ill. Note: Health and safety issues in studio work.

Martin, Nicholas. "Legionnaire's Disease." Scottish Glass Society Newsletter, no. 18, June 1985, p. 3.

Nicholas, Mike. "Studio Safety." The Independent Glassblower, no. 42, June/July/Aug. 1996, pp. 4-7.

Nixon, W. C. "Safe Handling of Frosting and Etching Solutions." Stained Glass, v. 75, no. 3, Fall 1980, pp. 215-216.

Palmer, Stuart. "Safety and the engraver." The Glass Engraver, no. 53, Winter 1988-1989, pp. 9-14.

"Pate de verre Health and Safety Checklist." Glass Art, v. 9, no. 6, Sept./Oct. 1994, p. 56.

Perszyk, Peter. "You Think They Would Learn." Sign Builder Illustrated, no. 48, Nov./Dec. 1997, pp. 86-88+, ill. Note: Neon safety issues.

Peterson, Chris. "Sandblasting Safety." Professional Stained Glass, v. 8, no. 1, Feb. 1988, p. 25

Platt, Karl. "Kilns: Safe Use and Maintenance." Glass Art Magazine, v. 1, no. 5, March 1986, pp. 20-21+

"Polariscope: Viewing the Stress in Glass." Glass Line, v. 2, no. 5, Feb./March 1989, pp. 11-14

Price, Priscilla. "Careful Planning Paramount for the Safe Packing of Glass." The Corning Museum of Glass Newsletter, Winter 1990, pp. 1-3

Priest, Al. "Ladders and Safety on the Job Site." Stained Glass, v. 107, no. 1 (Spring 2012), p. 64, ill. Note: Quarterly of the Stained Glass Association of America. Pertains to stained glass workers and others.

Radeschi, Loretta. "The Dangers of Working with Glass Are Crystal Clear: Tips for Ensuring our Safety in the Studio." The Crafts Report, v. 27, no. 298, Feb. 2001, pp. 36-37, ill.

Reynolds, Gil. "Kiln Crafting: Hot Tips for Fusing and Slumping." Stained Glass News, issue 87 (Nov. 2009) p. 8, ill.  
Note; Topics include the firing of the pocket vase and the explanation of safe fibers.

Roach, Monty. "Lathe Maintenance." The Flow, v. 1, no. 2, Spring 2003, pp. 42-43, ill.

Rossol, Monona. "Enameling Glass Safely." Common Ground: Glass, Winter 1995, pp. 8-9.

Rossol, Monona. "Glassmaking Health and Safety." Glass Art Society Technical Journal, 1989, pp. 10-15.

Rossol, Monona. "Glassmaking Health and Safety: Update 1991." The Glass Art Society Journal 1991, pp. 104-108.

Rossol, Monona. "Glassmaking Health and Safety, Update 1992." The Glass Art Society Journal 1992, pp. 99-104.

Rossol, Monona. "Health and Safety: Good Glasses for Gazing at Glowing Glass." Common Ground: Glass, Fall 2000, pp. 4-5. Note: Newsletter of the International Guild of Glass Artists Inc.

Rossol, Monona. "Health and Safety: Ceramic Fibers." The Firing Line, v. 2, no. 5, Nov./Dec. 1991, pp. 13-14. Note: Additional info: Orton Firing Institute, Westerville, OH. Fibers used in the firing of glass and ceramic products.

Rossol, Monona. "Safety Facts: The Noose Tightens on Lead." Common Ground: Glass, v. 1, no. 3, Winter 1994, p. 8.

Rossol, Monona. "Safety in Mold-making and Kilnworking." Professional Stained Glass, v. 9, no. 8, Aug. 1989, pp. 19-20.

"Safe Sandblasting and Etching." Glass Art Magazine, v. 1, no. 10, Aug. 1986, pp. 38-39.

"Sandblasting." Art Hazards News, v. 7, no. 3, April 1984, p. 3. Note: Safety hazards.

Schwabach, Deborah. "Health and Safety: The Fine Art of Pollution Prevention." The Firing Line, Fall/Winter 1996, pp. 10-13. Note: Additional info: Orton Firing Institute, Westerville, OH

Wadsworth, Katherine Natalia. "Frost Relief: Glass Etching: Acid-Etch a Glass Bead to Create a Luminous Glow." Bead & Button, issue 89 (Feb. 2009), pp. 81-83, ill. Note: Step-by-step making instructions; includes safety tips.

Wilson, Tom. "The Assumptions for Creating Color." The Flow, v. 2, no. 2, 2004, pp. 54-55. Note: Includes physical and chemical properties, bonds, and examples.

### **ACTS Facts (Arts, Crafts and Theater Safety)**

"Adult lead poisoning data floods in." ACTS Facts, v. 7, no. 4, April 1993, pp. 2-3.

"American Conference of Governmental Industrial Hygienists proposes new blood lead limit." ACTS Facts, v. 8, no. 7, July 1994, p. 1.

"Art Glass Worker's Cancers Associated with Metals." ACTS Facts, v. 8, no. 10, Oct. 1994, p. 4. PER RC963.6.A78.A18

"Ceramic Fiber Makers Sign Testing Agreement." ACTS Facts, v. 7, no. 6, June 1993, p. 3. Warnings about ceramic fiber kilns used by pottery, glass, and stained glass workers

"EPA proposes new reporting limits for lead." ACTS Facts, v. 13, no. 10, Oct. 1999, p. 1.

"Facts about silicosis." ACTS Facts, v. 8, no. 3, March 1994, p. 2.

"Few WA State Glass/Ceramic Makers Follow Lead Laws." ACTS Facts, v. 12, no. 6, June 1998, p. 3.

"Glass frit sparks largest Oregon OSHA fine ever." ACTS Facts, v. 9, no. 9, Sept. 1995, p. 2. See also note in ACTS Facts, v. 9, no. 10, Oct. 1995, p. 4.

"Hydrofluoric acid : not for amateurs." ACTS Facts, v. 14, no. 3, March 2000, p. 3. Note: Hazards, treatment, and advice.

“Infrared radiation in glass work studied.” ACTS Facts, v. 4, no. 10, Oct. 1990, p. 1  
Note: Risks for glass artists while working at the furnace and while shaping hot glass

“Labeling law costs threaten glass and glaze makers?” ACTS Facts, v. 5, no. 8, Aug. 1991, pp. 1-3.

“Lead, arsenic & chrome emitted by glass furnaces.” ACTS Facts, v. 11, no. 6, June 1997, p. 4.

“NIOSH calls for ban on sand blasting.” ACTS Facts, v. 8, no. 3, March 1994, p. 3.  
Additional info: Arts, Crafts and Theater Safe

“Radiation hazards for ceramic and glass workers.” ACTS Facts, v. 11, no. 1, Jan. 1997, pp. 1-2.

“Respiratory problems found more often in glassblowers.” ACTS Facts, v. 7, no. 7, July 1993, p. 2.

Rossol, Monona. “Stained Glass Exempted from Lead Exposure Reduction Act.” ACTS Facts v. 6, no. 10, Oct. 1992, p. 3.

“Silica targeted for special emphasis by OSHA.” ACTS Facts, v. 10, no. 7, July 1996, p. 2.

“Silicosis Still a Deadly Problem.” ACTS Facts, v. 7, no. 6, June 1993, p. 2. Note: Sandblasting dangers

“Status Report: Lead/Cadmium Rules for Ceramics and Glass.” ACTS Facts, v. 12, no. 4, April 1998, pp. 1-2. .

“Studies of Lead and Frits.” ACTS Facts, v. 8, no. 9, Sept. 1994, pp. 2-3.

## **Websites:**

### *Studio safety:*

Lewton-Brain, Charles. “The Jewelry Workshop Safety Report” 2002:

<http://brainpress.com/Ganoksin.html#SafetyNotes> OR

<http://www.ganoksin.com/borisat/directory/library/source/12/612/intro/1>

Warm Glass “Health and Safety”: [http://www.warmglass.com/Health\\_and\\_safety.htm](http://www.warmglass.com/Health_and_safety.htm)

### Bullseye:

[http://www.bullseyeglass.com/pdf/other\\_tech/kiln\\_glass\\_safety.pdf](http://www.bullseyeglass.com/pdf/other_tech/kiln_glass_safety.pdf)

<http://www.bullseyeglass.com/methods-ideas/safety-in-the-kiln-glass-studio.html> OR

[http://www.bullseyeglass.com/images/stories/bullseye/PDF/other\\_technical/kiln\\_glass\\_safety.pdf](http://www.bullseyeglass.com/images/stories/bullseye/PDF/other_technical/kiln_glass_safety.pdf)

additional tips, including kilns: <http://www.bullseyeglass.com/methods-ideas/index-of-articles.html>

Kervaliet, Brian. Full-text versions of articles in *Glass Art Magazine*.

<http://www.gossamerglass.com/GG/articles/article1.html>

*Material Safety Data Sheets (MSDS).*

“Material safety data sheets provide information about the safe use and potential hazards of a material. The sheets include the contents of the product and safety information, including toxicity, “threshold limit values,” health effects, first aid, reactivity, storage, and more. They are available from the product's manufacturer.

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (a worldwide system of labeling chemicals)

[http://www.unece.org/trans/danger/publi/ghs/ghs\\_rev04/04files\\_e.html](http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html)

Instructions for finding MSDS:

Msdsonline: <http://www.ilpi.com/msds/index.html>

Cornell: <http://sp.ehs.cornell.edu/lab-research-safety/research-safety/msds/Pages/default.aspx>

Kansas State University: <http://jrm.phys.ksu.edu//Safety/msds.html>

*Lampworking instructions, incl. safety:*

The Scientific Glassblowing Learning Center: <http://www.ilpi.com/glassblowing/>

*Selected government sites:*

The National Institute for Occupational Safety and Health (NIOSH), Center for Disease Control and Protection (CDC): <http://www.cdc.gov/niosh/>

As part of the CDC, NIOSH is responsible for conducting research and making recommendations for the prevention of work-related illnesses and injuries.

NIOSH Pocket Guide to Chemical Hazards: <http://www.cdc.gov/niosh/npg/default.html>

“The NIOSH Pocket Guide to Chemical Hazards (NPG) is intended as a source of general industrial hygiene information on several hundred chemicals/classes for workers, employers, and occupational health professionals. The NPG does not contain an analysis of all pertinent data, rather it presents key information and data in abbreviated or tabular form for chemicals or substance groupings (e.g. cyanides, fluorides, manganese compounds) that are found in the work environment. The information found in the NPG should help users recognize and control occupational chemical hazards.”

NIOSH publications list: [http://www.cdc.gov/niosh/pubs/all\\_date\\_desc\\_nopubnumbers.html](http://www.cdc.gov/niosh/pubs/all_date_desc_nopubnumbers.html)

US Office of Health, Safety & Security website: [www.hss.doe.gov/](http://www.hss.doe.gov/)

High Efficiency Particulate Air (HEPA) Filters info:

<http://www.hss.doe.gov/nuclearsafety/ga/hepa/>

OSHA Occupational Safety and Health Standards. Personal Protective Equipment, Respiratory Protection, Standard Number: 1910.134:

[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_id=12716&p\\_table=standards](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_id=12716&p_table=standards)

OSHA Occupational Safety and Health Standards. Air Contaminants, Section 6 - VI. Health Effects Discussion and Determination of Final PEL [permissible exposure limits]: [http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=PREAMBLES&p\\_id=770](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=PREAMBLES&p_id=770)  
Information about a wide range of air contaminants, including exposure limits for silica containing dusts "SILICA, CRYSTALLINE - QUARTZ CAS: 14808-60-7; Chemical Formula: None H.S. No. 1355" ("...high exposure of silica-containing dusts have revealed high lung cancer risks...."), exposure limits to hematite dust (ferric oxide) used as a polishing agent for glass, jewelry, etc., and other chemicals used by glassmakers.

Explanation of OSHA Permissible Exposure Limits (PELs): <http://www.osha.gov/SLTC/pe/>

OSHA Occupational Safety and Health Standards, Air Contaminants, Section 7 - VII. Feasibility and Regulatory Analyses: [http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=PREAMBLES&p\\_id=771](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=PREAMBLES&p_id=771)

National Institute for Occupational Safety and Health (NIOSH). "Notice Prevention of Silicosis Deaths." DHHS (NIOSH) Publication No. 93-124: <http://www.cdc.gov/niosh/updates/93-124.html>

Silicosis & Crystalline Silica Discussed in New Online Video: <http://www.prlog.org/11981664-silicosis-crystalline-silica-discussed-in-new-online-video.html>

### **Selected Journals**

Art hazards news. [New York, Center for Occupational Hazards], 1978-1998.

ACTS facts. New York, N.Y.: Arts, Crafts and Theater Safety. 1987-[continuing].  
<http://www.artscraftstheatersafety.org/>  
<http://www.artscraftstheatersafety.org/newsletter.html>

British Society of Scientific Glassblowers journal. <http://www.bssq.co.uk/>.

The Flow: A Journal for the Flameworking Community. <http://www.theflowmagazine.com/>.

Fusion. American Scientific Glassblowers Society. <http://www.asgs-glass.org/>.

Glass Art Society Journal and Newsletter. <http://www.glassart.org/>

Glass Line. <http://www.lampworkers.com/index1.html>.

HotGAS and SGAA Journal. [www.sqsanz.org.au/tech\\_info.htm](http://www.sqsanz.org.au/tech_info.htm).

International Society of Glass Beadmakers: <http://www.isgb.org/>

### **Library subject headings:**

Artisans--Health and hygiene.

Artists--Safety measures.

Artists' studios--Safety measures.

Safety, Occupational.  
Factories--Heating and ventilation.  
Ventilation.