

# HEALTH INFORMATION

VIRGINIA POISON CENTER



## SAFE USE OF ART PRODUCTS

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Participation in a variety of visual and performing art activities is an important part of the best developmental programs for children. Plus, it's lots of FUN! Art activities occur in many lower elementary classes and childcare centers as an ongoing part of the daily schedule. As school begins in September, many school-aged children also acquire a box of art supplies to use in their art classes. So glues, paints, ink and other art products are a part of the normal school, home and child care environments.

Art products are mixtures of chemicals which should be handled correctly so that children are able to safely enjoy art activities. Young children are very likely to taste pretty, colorful, and scented art products. Even older children may be exposed to them if some is splashed into eyes or spilled onto skin. Poison centers receive many calls for childhood exposures to art products. Most cases result in no effect at all, or only minor effects. Very few require treatment by a doctor.

### Common Art Products Involved with Poisonings:

- **Chalk:** Contains calcium carbonate, and one-time ingestions typically do not cause poisoning. More serious problems can occur if the piece of chalk lodges in the esophagus causing pain or trouble swallowing, drooling or increased salivation. Although rare, chalk and other foreign bodies such as erasers, small pencil sharpeners, mechanical pen and pencil parts, etc., can be aspirated into the windpipe. This can block the airway, causing a cough, difficulty breathing, or wheezing.
- **Pencils:** Pencil "lead" contains graphite, not lead, and is completely harmless to swallow.
- **Ballpoint Pens:** Generally, not poisonous due to the low concentration and very small amount of the liquid inks in these items.
- **Markers:** "Water-soluble" markers are not expected to cause harm. It is also not expected for most other felt-tip markers to cause any toxicity if small amounts of the ink are ingested. A few permanent markers may contain aniline dyestuffs, which, in a very large ingestion, can cause toxicity.
- **Erasers:** Not considered poisonous but could cause blockage or injury if lodged in the esophagus or aspirated into the windpipe.
- **Glues:** School type glues (such as Elmer's®) are generally considered nontoxic. "Super glues" (such as Krazy Glue®) do not cause poisoning, or throat or esophageal adhesions when ingested. They can cause oral membranes and skin surfaces to stick together instantly. Eye exposure rapidly seals eyelids together. Corneal abrasions, loss of lashes, eyelid skin injury or conjunctival inflammation may occur.
- **Paints:** Water-based paints, including latex, tempera and poster paints may be very mild irritants, but poisoning is not expected. Some latex paints contain measurable amounts (5 to 10%) of glycols, so poisoning should be assessed in those patients who ingest very large amounts of interior latex paints. Oil-based paints contain solvents such as toluene, xylene, light petroleum spirits, methyl ethyl ketone, acetone, and others. These solvent-based paints can cause acute poisoning.



# LOOK FOR SEALS OF THE ARTS AND CRAFTS MATERIALS INSTITUTE (ACMI)

When choosing art supplies for use in childcare centers and schools, the product certification should be considered. Many school art supplies are imprinted with the seals of the Arts and Crafts Materials Institute (ACMI). Since 1999, ACMI has used two certification seals to rate arts and crafts materials. Products bearing the AP (Approved Product) seal are certified in a toxicological evaluation “to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.” These products are best for use with young children. Products bearing the CL (Cautionary Label) Seal are certified “to be properly labeled for any known health risks and with information on the safe and proper use of these materials.” This seal appears on only 15 percent of the **adult** art materials in ACMI’s certification program but not the children’s materials.

If a young artist does chew on a crayon, or eat some glue, or splash paint into eyes, help is just a phone call away. Always call the Poison Center right away if you think that someone may have touched or swallowed any chemical product. An immediate call to the Virginia Poison Center will put you in touch with experts who can instruct you in the correct first-aid actions. The poison center staff can also tell you whether a trip to the doctor is needed—it’s not likely.

**Call (800) 222-1222 to be connected to the poison center that serves your local area in Virginia.** This is a toll-free call, and confidential emergency help is always available free, twenty-four hours daily.

**Participation in art is an entertaining and vital part of early childhood education programs. Here are some safety guidelines to follow when children are using art products:**

- Read the label carefully and follow all instructions for safe use and disposal.
- Discard products that have passed their expiration date.
- Do not eat or drink while using art products.
- Wash up—skin, equipment, and environment-- after use.
- Never use products for skin painting or food decoration unless the product is specifically labeled for that use.
- Store art products in their original containers.
- Handle art products in accordance with your program’s guidelines for safe chemical use and storage.

For more information about the safety of art products visit: [www.acmiart.org](http://www.acmiart.org)

## **Virginia Poison Center**

VCU Health

**Phone:** (804) 828-4780

**Web:** [poison.vcu.edu](http://poison.vcu.edu)



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