CONDITION

Bubble bath soap poisoning

Learn what to do after swallowing or being exposed to bubble bath soap, including expected symptoms, first aid, and when to seek urgent help.

WHAT IT IS
Illness from swallowing or exposure to bubble bath soap

BODY SYSTEM
Digestive system, lungs, eyes and skin

MAIN SYMPTOMS
Nausea, vomiting, diarrhea, coughing

WHAT CAUSES IT
Accidental swallowing or chemical exposure

HOW IT IS DIAGNOSED
Exposure history and symptom assessment

MAIN TREATMENT
Rinsing and supportive care

CAN IT BE CURED?
Yes, most minor exposures improve

IS IT AN EMERGENCY?
Sometimes, with severe breathing difficulty

LONG-TERM OUTLOOK
Most minor exposures improve without lasting harm

Overview

Bubble bath soap poisoning refers to illness caused by swallowing bubble bath liquid or, less often, getting a large amount in the eyes, on the skin, or into the lungs. Children are more likely to swallow these products accidentally, but exposures can happen at any age.

Most ordinary bubble bath products contain surfactants . These are chemicals that help water lift oil and dirt from the skin. Surfactants also create foam. Many products contain fragrances, dyes, preservatives, and other ingredients.

A small accidental swallow of standard bubble bath soap is usually low in toxicity. It may irritate the mouth and digestive system, leading to nausea, vomiting, or diarrhea. The foam can be more concerning than the soap itself. If foam or vomit enters the airway, it may irritate the lungs and cause coughing or breathing problems.

Not all bath products have the same ingredients. Concentrated products or products containing disinfectants, essential oils, alcohols, or other active chemicals may carry different risks. A product made for cleaning a bathtub, hot tub, or other surface is also not the same as bubble bath intended for skin contact.

For advice based on the exact product and amount involved, contact a poison center. In the United States, Poison Help is available at 1-800-222-1222 and through the webPOISONCONTROL online tool. Call emergency services immediately if the person has serious breathing difficulty, collapses, has a seizure, or cannot be awakened.

Symptoms

Symptoms depend on the product, the amount involved, and whether it was swallowed, inhaled, or splashed into the eyes.

After swallowing bubble bath soap, possible symptoms include:

Brief vomiting or loose stools may occur because surfactants irritate the digestive tract. Repeated vomiting is less typical and deserves medical advice, especially in a young child or anyone at risk of dehydration.

Foam or vomit can sometimes enter the airway. This is called aspiration . Symptoms may include persistent coughing, wheezing, noisy breathing, chest discomfort, shortness of breath, or unusual sleepiness. Breathing symptoms may begin during the exposure or develop afterward.

Eye exposure can cause redness, burning, tearing, or temporary blurred vision. Skin contact may cause dryness, redness, itching, or a rash, especially after prolonged soaking or in people with sensitive skin.

Fragranced bubble baths can also irritate the skin around the genitals or the opening of the urethra, the tube through which urine leaves the body. This may cause soreness or stinging with urination. Such irritation is different from systemic poisoning and does not by itself mean there is a urinary tract infection.

- An unpleasant or soapy taste
- Burning or irritation in the mouth or throat
- Nausea, stomach discomfort, vomiting, or diarrhea
- Coughing, gagging, or choking from foam
- Drooling or trouble swallowing if irritation is more significant

Causes and risk factors

The most common cause is an accidental swallow. A child may drink from an open bottle, lick spilled liquid, or swallow bathwater containing a large amount of product. Adults may accidentally confuse a product with another liquid or be exposed while helping a child bathe.

Factors that may increase the chance of symptoms include:

The product label matters. A standard cosmetic bubble bath usually presents a different risk from dishwashing detergent, laundry detergent packets, household cleaners, or products intended to disinfect surfaces. Some cleaners are corrosive, meaning they can burn tissue, and require different treatment.

Do not rely on the product's smell, color, or amount of foam to judge its safety. The poison center can review the ingredient list or product identification information.

- Swallowing a concentrated product or more than a small taste
- Vomiting soon after exposure, which can create foam near the airway
- Coughing or choking during the swallow
- Being very young, frail, or unable to protect the airway
- Having a swallowing disorder or a condition that affects alertness
- Exposure to a product with additional active ingredients
- Leaving the product in a drink bottle or an unlocked, easy-to-reach place

Diagnosis

Bubble bath soap exposure is usually assessed from the history and the person's symptoms. A poison specialist or healthcare professional may ask for:

Keep the bottle or take a clear picture of the label. Do not delay emergency care while searching for packaging if the person has severe symptoms.

When medical evaluation is needed, a clinician may check breathing, oxygen level, heart rate, blood pressure, alertness, and signs of irritation in the mouth or eyes. The lungs may be examined for wheezing or abnormal breath sounds.

Blood tests and imaging are not routinely needed after a minor, symptom-free exposure to ordinary bubble bath soap. A chest X-ray or other tests may be considered if there is ongoing coughing, low oxygen, breathing difficulty, or concern that foam or vomit entered the lungs. Testing depends on the specific product and clinical findings.

- The exact product name and ingredients, if available
- The estimated amount swallowed or spilled
- The time of exposure
- Whether the product reached the mouth, eyes, skin, or airway
- The person's age, approximate weight, health conditions, and current symptoms
- Any first aid or home treatment already given

Treatment and management

For a small swallow of ordinary bubble bath soap, first aid is aimed at reducing irritation and preventing aspiration.

Remove any remaining product from the mouth. If the person is awake, alert, and able to swallow normally, rinse the mouth and offer a small amount of water. Contact a poison center for product-specific advice.

Do not make the person vomit. Vomiting can produce more foam and increase the chance that soap will enter the airway. Do not give activated charcoal, vinegar, lemon juice, baking soda, or another home remedy unless a poison specialist or clinician specifically directs you to do so. Activated charcoal is generally not useful for routine soap exposure and may complicate vomiting or aspiration.

Do not give food or drink to someone who is very drowsy, having a seizure, choking, or unable to swallow safely.

For eye exposure, remove contact lenses if this can be done easily. Rinse the eye with clean, lukewarm running water. Hold the eyelids open and allow water to flow gently across the eye. Poison Control commonly recommends rinsing for at least 15 to 20 minutes, but follow the instructions given for the specific exposure. Seek medical advice if pain, redness, light sensitivity, or blurred vision continues after rinsing.

For skin exposure, remove soaked clothing and rinse the skin with water. A mild, fragrance-free cleanser may be used to remove residue, but repeated scrubbing can worsen irritation.

Move the person to fresh air if mist, foam, or vomit has been inhaled. Call emergency services for severe trouble breathing, blue or gray lips, collapse, a seizure, or inability to wake the person. Persistent coughing, wheezing, or shortness of breath also needs prompt medical assessment.

Treatment in a healthcare setting is supportive, meaning it focuses on breathing, hydration, and comfort while the irritation improves. Depending on symptoms, care may include oxygen, monitoring, intravenous fluids, or treatment for wheezing. Antibiotics like amoxicillin or doxycycline are not routinely used simply because aspiration may have occurred. Clinicians decide whether they are needed based on evidence of infection or another diagnosis.

Complications

Most minor exposures improve without lasting harm. Complications are uncommon but can occur.

The main concern after swallowing a foaming product is aspiration into the lungs. This can cause chemical pneumonitis , which is inflammation of lung tissue from an irritating substance. Signs can include ongoing cough, wheezing, rapid breathing, low oxygen, fever, or increasing shortness of breath.

Repeated vomiting or diarrhea can lead to dehydration. Young children, older adults, and people with certain health conditions may become dehydrated more quickly. Warning signs include a very dry mouth, reduced urination, dizziness, or unusual tiredness.

A concentrated eye exposure may injure the surface of the eye if the product is not rinsed away. Ongoing pain or vision changes require medical assessment.

Prolonged skin contact can worsen eczema or cause irritant contact dermatitis, an inflamed, itchy rash caused by direct chemical irritation. Genital irritation may also persist if fragranced products continue to be used.

More serious tissue injury is possible when the product is not an ordinary cosmetic bubble bath but instead contains corrosive cleaning chemicals or other hazardous ingredients. This is why identifying the exact product is important.

Follow up

A person with no symptoms or only brief mild stomach upset may not need an in-person visit after a poison center has reviewed the exposure. Follow the poison specialist's instructions and observe for new symptoms during the period they recommend.

Arrange routine medical follow-up if digestive symptoms do not settle, skin irritation continues, or pain with urination persists after the bubble bath product has been stopped. A clinician can look for other causes, such as dermatitis or infection, without assuming the soap is responsible.

Seek prompt medical care if there is repeated vomiting, inability to keep fluids down, worsening throat pain, persistent eye symptoms after rinsing, unusual drowsiness, or signs of dehydration.

Call emergency services for:

To help prevent another exposure, keep bubble bath products in their original containers and store them out of children's sight and reach. Close the cap after each use. Never transfer bath products into cups, beverage bottles, or food containers. Supervise young children in the bath and empty bathwater promptly.

- Severe or worsening breathing difficulty
- Blue or gray coloring around the lips
- Collapse, seizure, or inability to wake the person
- Choking or inability to swallow
- Rapidly worsening symptoms after a large or unknown exposure

Sources

- U.S. National Library of Medicine. Bubble bath soap poisoning . MedlinePlus Medical Encyclopedia .
- America's Poison Centers. Get Poison Help . National Poison Help service and poison-center guidance.
- National Capital Poison Center. Is soap toxic? Poison Control .
- American Academy of Pediatrics. Poison Prevention & Treatment Tips for Parents . HealthyChildren.org .
- Royal Children's Hospital Melbourne. Clinical Practice Guideline: Poisoning-Acute Guidelines for Initial Management .
- Chyka PA, Seger D, Krenzelok EP, Vale JA. Position paper: Single-dose activated charcoal . Clinical Toxicology . 2005;43(2):61-87.