Risk Assessment

Product Identification

Product Name	Plastic Button
Intended Use	Plastic buttons are intended for use as fasteners or decorative elements on clothing items such as shirts, pants, jackets, and dresses in the garment
	industry.
Target Consumer	The target consumer group includes clothing manufacturers, fashion designers, retailers, and end consumers who purchase garments with plastic
Group	button fastenings.
Product Material	Plastic
Function	Plastic buttons function as fasteners to secure clothing items and as decorative accents to enhance the aesthetic appeal of the garment.

Risk Category	Risk	Potential Hazard	Likelihood (1-5)	Severity (1-5)	Risk Rating (L x S)	Control Measures
Physical Risk	Choking Hazard	Small plastic buttons or button parts (e.g., loose	3	5	15	Ensure buttons are securely attached during manufacturing.
		buttons or rivets) may detach and pose a choking				Use larger or sturdier buttons to prevent detachment.
		hazard, especially to children.				Include warning labels for products unsuitable for children under 3 years.
	Injury from Sharp Edges	Plastic buttons may have rough or sharp edges that	3	2	6	Inspect buttons for rough edges or jagged surfaces.
		can cause cuts, abrasions, or injuries, particularly when handled or when in contact with skin.				Use rounded or smooth finishes to minimize injury risk.
	Detachment from Garment	Buttons may detach from garments due to poor stitching or low-quality	3	3	9	Use strong stitching and secure attachment methods.
		buttons, leading to potential injury or damage to clothing.				Perform quality checks to ensure proper attachment strength.
Environmental Risk	Degradation from UV	Prolonged exposure to sunlight can cause plastic	3	3	9	Use UV-resistant plastic or coatings for added durability.
	Exposure	buttons to discolor, become brittle, or degrade, reducing their lifespan.				Provide care instructions to avoid prolonged exposure to direct sunlight.
	Environmental Impact (Waste)	Plastic buttons can contribute to	3	4	12	Encourage the use of recyclable plastic materials.
		environmental pollution if they are not disposed of or recycled properly.				Promote recycling programs for used garments or buttons.

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	Water Damage	Exposure to moisture or water may cause plastic buttons to warp, crack, or discolor, affecting their appearance and functionality. Plastic buttons are flammable and can catch	3	3	9	Apply water-resistant coatings to plastic buttons. Provide washing instructions to prevent direct exposure to water. Ensure plastic buttons meet flammability standards.
Fire Risk		fire if exposed to open flames or high heat.				Advise consumers to avoid placing garments with plastic buttons near flames or excessive heat.
	Melting or Deformation in Heat	Plastic buttons may deform, melt, or lose shape when exposed to high	3	4	12	Provide care instructions to avoid high-heat exposure.
		temperatures, such as during washing or ironing.				Test plastic buttons for heat resistance and durability.
Chemical Risk	Toxicity from Plastic Additives	Some plastic buttons may contain harmful additives or chemicals (e.g.	2	4	8	Use non-toxic, skin-safe plastic materials that comply with relevant regulations.
		phthalates, bisphenol A) that can cause skin irritation or allergic reactions.				Ensure compliance with safety standards for restricted substances in plastics.
	Off-Gassing of VOCs	Some plastic buttons may release volatile organic compounds (VOCs) during	2	3	6	Use low-VOC or VOC-free plastic materials in production.
		manufacturing or after use, potentially affecting air quality.				Ensure proper ventilation during manufacturing and storage.
	Chemical Contamination from	Residual chemicals (e.g., adhesives, coatings) used in button production could	2	3	6	Implement thorough cleaning and testing processes to remove chemical residues.
	Manufacturing	remain on the buttons, transferring to the skin and causing reactions.				Use safe and approved chemicals during manufacturing.

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Residual Risk Assessment:

After implementing the control measures above, the residual risks associated with the product will be significantly reduced.

Ongoing Monitoring and Review:

We regularly review and update the risk assessment if any new hazards or risks are identified through product testing or feedback.

Legend:

Likelihood (1-5): 1 (Very Unlikely) to 5 (Very Likely)

Severity (1-5): 1 (Minimal Impact) to 5 (Severe Impact)

Risk Rating (L x S): Product of Likelihood and Severity. Risk Rating of 16 or above indicates high risk.