Risk Assessment

Product Identification

Product Name	Embroidered Badges
Intended Use	Badges are primarily intended for decorative and branding purposes in the garment industry. These badges are designed to be attached to clothing such as jackets, t-shirts, hats, bags, or uniforms, offering an aesthetic appeal, brand identification, or a unique design element.
Target Consumer Group	The primary users of rubber badges in the garment industry include garment industries, fashion brands, sports brands and others.
Product Material	Polyester
Function	The key functions of rubber badges for clothing include branding, design and other promotional.

Risk Category	Risk	Potential Hazard	Likelihood (1-5)	Severity (1-5)	Risk Rating (L x S)	Control Measures
Physical Risk	Choking Hazard	Small parts (e.g., loose threads or embellishments) could detach and pose a choking hazard, particularly to children.	2	5	10	Ensure that all components are securely sewn. Follow size guidelines to prevent detachable small parts. Clear labeling with warnings for products unsuitable for children under 3 years.
	Injury from Sharp Edges	Embroidered badges may have sharp edges or uneven stitching that can cause skin irritation or abrasions.	3	2	6	Inspect all badges for rough edges or exposed threads. Use smooth finishes and soft, well-secured threads.
	Detachment from Garment	Embroidered badges may detach from garments due to poor stitching, leading to potential injury or damage to clothing.	3	3	9	Use strong, reinforced stitching techniques. Perform rigorous quality checks for attachment strength.
Environmental Risk	Degradation from UV Exposure	Prolonged exposure to sunlight may cause the thread colors of embroidered badges to fade or degrade over time.	3	3	9	Use UV-resistant thread and materials to minimize fading. Advise proper garment care, such as avoiding prolonged sun exposure.
	Environmental Impact (Waste)	Embroidered badges, especially with synthetic threads or backing, can contribute to waste in landfills.	3	4	12	Promote the use of eco-friendly threads and materials (e.g., organic cotton or recycled fibers). Encourage consumers to recycle or donate old garments.

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	Water Damage	Embroidered badges may lose their shape or color when exposed to excessive water or moisture.	3	3	9	Advise washing instructions to avoid direct water exposure. Use water-resistant or water-repellent coatings for the badges.
Fire Risk	Combustibility	Embroidered badges, particularly those made from synthetic threads, may catch fire easily when exposed to open flames or heat.	3	5	15	Ensure that badges meet flammability standards. Advise against placing garments with embroidered badges near open flames or excessive heat.
	Melting or Deformation in Heat	Synthetic threads in embroidered badges may melt or deform under high temperatures, such as during washing or ironing.	3	4	12	Provide care instructions to avoid exposure to high temperatures. Use heat-resistant materials or test for heat durability.
Chemical Risk	Toxicity from Dyes or Adhesives	The dyes or adhesives used in the embroidery process may contain harmful chemicals that could cause skin irritation or allergic reactions.	2	4	8	Use non-toxic, skin-safe dyes and adhesives that comply with safety standards. Ensure materials meet regulatory requirements for garment safety.
	Off-Gassing of VOCs	Some threads or adhesives may release volatile organic compounds (VOCs) during manufacturing or after purchase, which can affect air quality and potentially irritate skin.	2	3	6	Use low-VOC or VOC-free materials in the embroidery process. Ensure proper ventilation during manufacturing and packaging.
	Chemical Contamination from Residues	Residual chemicals from the production process (e.g., adhesives, finishing agents) may remain on the embroidered badge, posing skin risks.	2	3	6	Implement thorough cleaning processes to remove any residual chemicals. Perform quality checks to ensure that no harmful residues remain.

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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.