Risk Assessment

Product Identification

Product Name	Rubber Badges
Intended Use	Rubber 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	Rubber
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 of rubber badges could become detached and pose a choking hazard, especially to young children.	3	5	15	Use safety standards to ensure parts are securely attached. Size restrictions to prevent small parts. Clear labeling with warning if the product is unsuitable for young children.
	Injury from Sharp Edges	Badges may have rough or sharp edges that could cause skin abrasions during wear.	2	2	4	Ensure smooth edges and finish during manufacturing. Regular quality control checks for sharp edges.
	Risk of Detachment	Badges might detach during wear, causing potential injury from sudden impacts.	3	3	9	Securely attach badges to garments. Use strong adhesive or stitching to prevent detachment.
Environmental Risk	Degradation from UV Exposure	Prolonged exposure to sunlight can cause the rubber material to degrade, becoming brittle and discolored.	3	3	9	Use UV-resistant rubber or coatings. Advise proper care instructions to avoid prolonged exposure to sunlight.
	Disposal and Waste	Rubber material is not biodegradable, contributing to waste if improperly disposed of.	4	4	16	Promote recycling or upcycling of rubber badges. Use environmentally friendly materials where possible.
	Water Damage	Prolonged exposure to water can cause the rubber to swell, weaken, or lose shape.	3	2	6	Advise customers to avoid wet conditions. Use water-resistant rubber compounds.

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Fire Risk	Combustibility	Rubber material is flammable and could catch fire if exposed to heat or open flames.	3	5	15	Ensure products meet flammability standards. Avoid placing badges near heat sources or open flames.
	Melting or Deformation in Heat	Badges may melt or deform when exposed to high temperatures, especially during washing or ironing.	2	4	8	Provide care instructions to avoid heat exposure. Test for high-temperature durability.
Chemical Risk	Toxicity of Additives	Some additives or colorants used in rubber may release harmful chemicals, especially when the badge is worn against the skin for prolonged periods.	2	4	8	Use non-toxic, skin-safe materials in manufacturing. Ensure all components meet safety standards for consumer products.
	Off-Gassing of Volatile Chemicals	The rubber may release harmful VOCs (volatile organic compounds) when new, affecting air quality and possibly causing irritation.	3	3	9	Use low-VOC or VOC-free materials. Ensure proper ventilation during production and packaging.
	Chemical Contamination during Production	Residual chemicals from the manufacturing process, such as adhesives or solvents, could contaminate the rubber.	2	3	6	Ensure proper cleaning processes during production. Conduct quality checks to ensure no harmful residues remain on the product.

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 monitor any reported issues or customer complaints regarding rubber badges. 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.