



Sustainable Chemicals in Toys: A Compliance Playbook



Building Safer Products for a Safer Future

As consumer awareness of health, safety, and environmental impact grows, the toy industry is under increasing pressure to shift toward sustainable chemical management. From paints and plastics to adhesives and finishes, toys often contain a variety of chemical substances, many of which are regulated under global laws to protect children and the environment.



The Toys & Games market worldwide is projected to generate revenue of **US\$132.86 billion in 2025**



An anticipated annual growth rate of **2.42% (CAGR 2025–2029)**

Eco-friendly and sustainable toys are gaining momentum as consumers demand responsibly sourced materials and greener manufacturing processes.

Why Chemical Compliance Matters in Toys

Toys are subject to some of the most stringent chemical safety regulations globally due to their contact with children. Unsafe or non-compliant chemical use can lead to:



Regulatory fines or product recalls



Damage to brand reputation



Loss of consumer trust



Increased environmental liability

Sustainable chemical management isn't just about compliance—it's a strategic advantage.

Key Regulations to Know

Toy manufacturers must navigate a complex web of international standards, including:

- > **REACH (EU)** – Registration, Evaluation, Authorisation and Restriction of Chemicals
- > **RoHS** – Restriction of Hazardous Substances in electrical and electronic toys
- > **ASTM F963 (US)** – Standard Consumer Safety Specification for Toy Safety
- > **EN 71 (EU)** – Safety of toys: chemical, physical, and mechanical properties
- > **California Proposition 65 (US)** – Warning requirements for potentially harmful substances

Compliance Best Practices

1. Know Your Chemical Inventory

Maintain an up-to-date log of all chemicals used in toys, including in paints, glues, coatings, and packaging.

2. Screen for Hazardous Substances

Utilize screening tools to identify restricted or high-risk chemicals before they enter your production cycle.

3. Maintain Up-to-Date SDS

Ensure Safety Data Sheets (SDS) are current, accessible, and aligned with the Globally Harmonized System (GHS).

4. Engage Your Supply Chain

Collaborate with suppliers to ensure chemical transparency, regulatory certifications, and full disclosures.

5. Implement MRSL Conformance

Adopt a Manufacturing Restricted Substances List (MRSL) to proactively manage inputs—not just outputs.

How CleanChain Supports Toy Manufacturers

Built for flexibility, CleanChain's SDS Tool enables toy brands and suppliers to :

- > Centralize and digitize SDS management
- > Track and monitor chemical inventory across facilities
- > Identify and flag high-risk or banned substances
- > Align with global compliance frameworks
- > Generate sustainability and compliance reports for internal teams and external stakeholders



Deep Dive: Best Practices in Sustainable Chemical Management for Toys



1. Establish a Centralized Chemical Management System

Consolidate all Safety Data Sheets (SDS), chemical classifications, and compliance statuses into one digital system for full traceability and audit readiness. Centralizing your data, streamlines workflows, reduces the risk of human error, and enables proactive compliance monitoring.

With the CleanChain SDS Tool:

- > Digitize and centralize SDSs from all your suppliers and facilities
- > Enable real-time updates and version control
- > Ensure alignment with GHS and region-specific requirements
- > Search, filter, and flag substances of concern in seconds

Pro Tip: Use CleanChain's platform to gather multi-tier supplier input and maintain real-time visibility across your global operations.



2. Adopt a Precautionary Approach to Chemical Screening

Go beyond legal minimums by implementing internal protocols to screen for hazardous chemicals such as Substances of Very High Concern (SVHCs), endocrine disruptors, and persistent organic pollutants (POPs). Taking a proactive stance helps prevent issues before they reach production.

Pro Tip: Leverage CleanChain to align your MRSL with global frameworks and receive automatic alerts on new chemical restrictions.



3. Integrate Compliance into Product Design

Include chemical compliance requirements during the early stages of product development. This ensures that toys meet safety criteria before manufacturing begins—reducing costly delays and recalls.

Pro Tip: Build chemical pre-approval workflows into your design stage, ensuring only approved substances make it into production.



4. Strengthen Supplier Collaboration

Foster stronger partnerships with your suppliers by providing clear guidelines, training, and support. Require regular third-party certifications, material declarations, and full disclosure of chemical formulations.

Pro Tip: Use CleanChain to request, manage, and validate supplier SDS submissions and to track compliance against your MRSL.



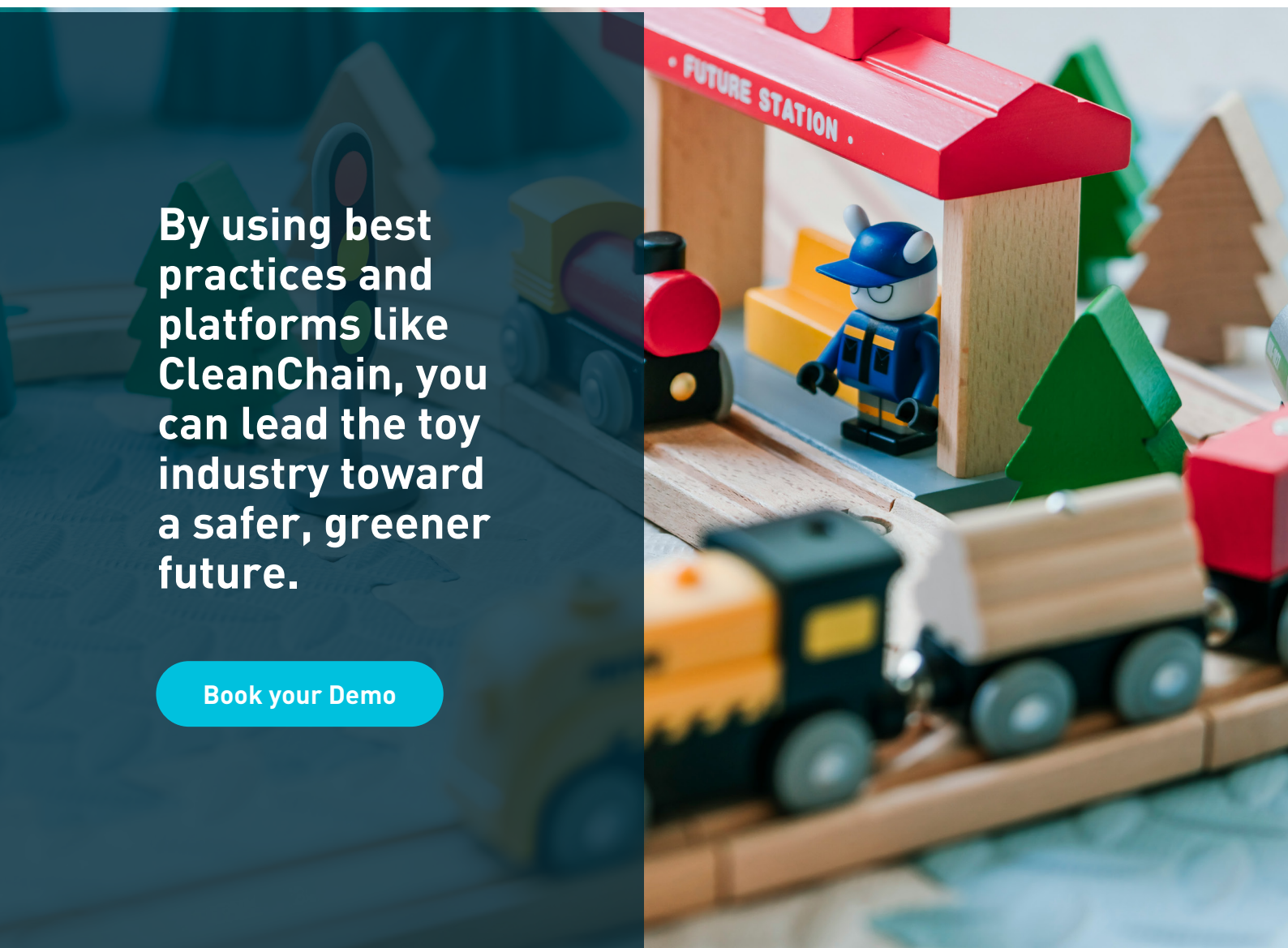
5. Automate Reporting and Audit Preparation

Generate compliance reports on demand—whether for internal review, regulatory submission, or external audits. Automation reduces manual work, increases accuracy, and ensures faster response to audits.

Pro Tip: CleanChain allows you to create specific reports with a few clicks and stay ahead of reporting deadlines through real-time dashboards and alerts.

Conclusion: Toward Safer, More Sustainable Toys

Sustainable chemical management goes beyond compliance—it reflects your brand's commitment to safety and responsibility. With growing scrutiny from consumers and regulators, toy brands that prioritize chemical transparency and safety will future-proof their business, build trust, and protect the next generation.



By using best practices and platforms like CleanChain, you can lead the toy industry toward a safer, greener future.

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