

Hazardous Substances Compliance Report

Professional Regulatory Analysis for EU/RoHS/REACH Compliance

[COMPANY LOGO PLACEHOLDER]

Executive Summary

This compliance report analyzes laptop for regulatory requirements in China.

- Analysis Results:**
- Total components analyzed: 4
 - Compliant components: 2
 - Non-compliant components: 2
 - Compliance rate: 50%
 - Overall status: **ACTION REQUIRED**

IMMEDIATE ACTION REQUIRED

Business Context

| | |
|-------------------|--------------------------------|
| Company Role: | Producer |
| Company Location: | Germany |
| Target Markets: | China |
| Product Category: | Computing & Telecommunications |
| Report Generated: | 2025-08-22 19:22:48 |

Product Information

| | |
|----------------------|--------------------------------|
| Product Description: | laptop |
| Product Category: | Computing & Telecommunications |
| Product Type: | Computing & Telecommunications |

| | |
|------------------|---------------|
| Expected Volume: | < 1,000 units |
|------------------|---------------|

Applicable Regulations

| Regulation | Authority | Status | Priority |
|---------------------------|----------------------|--------|----------|
| RoHS Directive | Government Authority | Active | Standard |
| REACH | Government Authority | Active | Standard |
| WEEE Directive | Government Authority | Active | Standard |
| EMC Directive | Government Authority | Active | Standard |
| Packaging Directive | Government Authority | Active | Standard |
| Radio Equipment Directive | Government Authority | Active | Standard |

Materials Analysis

Detailed analysis of 4 components:

| Component | Substance | Concentration (ppm) | Legal Limit (ppm) | Status | Risk Level | CAS Number | Notes |
|-----------------------|------------------------------|---------------------|-------------------|---------------|-------------|------------|------------------------------|
| LCD Display 15.6 inch | Lead (Pb) | 850.0 | 1000 | COMPLIANT | Medium Risk | 7439-92-1 | Within acceptable limits |
| Lithium Battery | Cobalt | 12000.0 | 1000 | NON-COMPLIANT | High Risk | 7440-48-4 | Exceeds limit by 11000.0 ppm |
| Plastic Housing | Halogenated Flame Retardants | 2500.0 | 1000 | NON-COMPLIANT | High Risk | N/A | Exceeds limit by 1500.0 ppm |
| CPU Processor | Gold | 45.0 | 1000 | COMPLIANT | Low Risk | 7440-57-5 | Within acceptable limits |

Compliance Summary

| | |
|----------------------|-----------------|
| Overall Status: | ACTION REQUIRED |
| Components Analyzed: | 4 |
| Regulations Applied: | 6 |
| Verified Sources: | 65 |
| Analysis Date: | 2025-08-22 |

Specific Recommendations

- Contact CATL immediately about Cobalt levels (12000.0 ppm exceeds 1000 ppm limit)

2. Contact Foxconn about Brominated Flame Retardants (2500.0 ppm exceeds 1000 ppm limit)
3. Implement emergency supplier audit for non-compliant components
4. Request alternative materials from suppliers within 48 hours
5. Conduct dual-jurisdiction compliance review (EU manufacturing + USA market entry)
6. Prepare separate compliance documentation for EU and USA requirements
7. Schedule urgent review with regulatory compliance team

Dual Jurisdiction Regulatory Framework

This analysis covers both manufacturing (EU) and market entry (USA) requirements.

EUROPEAN UNION REGULATIONS (Manufacturing Location: Germany)

RoHS Directive (2011/65/EU)

The Restriction of Hazardous Substances (RoHS) Directive restricts the use of specific hazardous materials found in electrical and electronic products. Applies to products manufactured or placed on the EU market.

| Substance | Chemical Symbol | Limit (ppm) | CAS Number |
|--------------------------------|-----------------|-------------|------------|
| Lead | Pb | 1000 | 7439-92-1 |
| Mercury | Hg | 1000 | 7439-97-6 |
| Cadmium | Cd | 100 | 7440-43-9 |
| Hexavalent Chromium | Cr6+ | 1000 | 18540-29-9 |
| Polybrominated biphenyls | PBB | 1000 | Various |
| Polybrominated diphenyl ethers | PBDE | 1000 | Various |
| Bis(2-ethylhexyl) phthalate | DEHP | 1000 | 117-81-7 |
| Benzyl butyl phthalate | BBP | 1000 | 85-68-7 |
| Dibutyl phthalate | DBP | 1000 | 84-74-2 |
| Diisobutyl phthalate | DIBP | 1000 | 84-69-5 |

REACH Regulation (1907/2006)

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) requires companies to identify and manage risks linked to chemicals. For Substances of Very High Concern (SVHC), the threshold for notification is 1000 ppm (0.1% by weight) in articles.

UNITED STATES REGULATIONS (Target Market)

California Proposition 65

The Safe Drinking Water and Toxic Enforcement Act requires businesses to provide warnings about significant exposures to chemicals that cause cancer, birth defects, or reproductive harm.

Over 900 chemicals are listed.

TSCA - Toxic Substances Control Act

EPA regulates the introduction of new or already existing chemicals in commerce. Requires pre-manufacture notification and testing of chemical substances used in electronic products.

| Regulation | Key Requirements | Substances of Concern |
|----------------|--------------------------------|--------------------------------|
| Proposition 65 | Warning labels required | Lead, Cadmium, Phthalates, BPA |
| CPSIA | Lead limit: 100 ppm (children) | Lead in accessible components |
| TSCA | Pre-manufacture notification | Industrial chemicals |
| FCC | EMC compliance | RF emissions, safety |

This report was generated by Rolling Sphere Technologies Hazardous Substances Compliance Platform.

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For questions about this analysis, please contact your regulatory compliance team.