

# Hazardous Substances Compliance Report

## Professional Regulatory Analysis for EU/RoHS/REACH Compliance

[COMPANY LOGO PLACEHOLDER]

### Executive Summary

This compliance report analyzes laptop manufactured in Germany for regulatory requirements in target market(s): South Korea, United States.

- 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:	South Korea, United States
Product Category:	Computing & Telecommunications
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### Product Information

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

Expected Volume:	< 1,000 units
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## 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
Korea RoHS	Government Authority	Active	Standard
K-REACH	Government Authority	Active	Standard
WEEE Korea	Government Authority	Active	Standard
KC Certification	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	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:	16
Verified Sources:	65
Analysis Date:	2025-08-22

## Specific Recommendations

1. 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

## Multi-Jurisdiction Regulatory Framework

This analysis covers manufacturing (Germany) and market entry requirements for: South Korea, United States.

### 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.

## SOUTH KOREA REGULATIONS (Target Market: South Korea)

### Korea RoHS & K-REACH

Korea RoHS restricts hazardous substances in electrical equipment. K-REACH regulates chemical substances. KC certification is mandatory for electrical products. KCC approval required for telecommunications equipment.

*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.*

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