

Scoop

THE LATEST TRENDS, SERVICES & PROMOTIONS

ELECTRICAL & ELECTRONICS

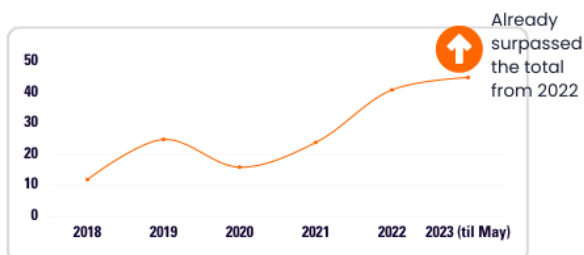
MAY 2023

Recent Surge in **Recalls** on Electrical & Electronic Products

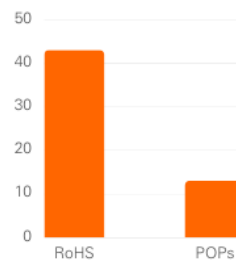
Electrical and electronic equipment (EEEs) are widely used in almost all aspects of daily life including audio and video equipment, communication devices, household appliances and lighting products. Safety and performance of EEPs are thus of paramount concern. It is vital that all EEPs sold meet stringent and performance standards to ensure they are safe and suitable for their intended use.

The **European Union** has an alert exchange system – RAPEX (The Rapid Exchange of Information System) to monitor consumer products that poses a risk to health and consumer safety between their member states for electrical appliances, clothing or toys. In the first five months of this year, we have already seen a huge number of recall cases, which have already surpassed the total from 2022. EU member states had strengthened the surveillance check and enforcement of restricted substances compliance in the past few months, resulting in a variety of products were recalled or withdrawn from the market.

RAPEX Recall Cases on EE Products



Number of Recall Cases per Regulation



Number of Recall Cases per Restricted Substance



Amongst, majority of the recall cases are on violations against RoHS or POPs. Most of the violations are on excessive concentration on lead, especially on electronics parts. There are also various violations on phthalate and SCCP, in which these restricted substances have been a long-term target on market surveillance. One may refer to below figures and violations for reference.

Violation on RoHS 2 regulation:

PRODUCT	CONTENT
USB charger	The product has an excessive concentration of lead
Car charger	The product has an excessive concentration of lead
Wireless charger	The product has an excessive concentration of lead
Hair dryer	The solders have an excessive concentration of lead
Halloween necklace	The solders have an excessive concentration of lead
LED face mask	The solders in the product have an excessive concentration of lead and cadmium
Robot vacuum cleaner	The product has an excessive concentration of lead in solders on the USB printed circuit board (PCB) and the engine
Selfie light	The product has an excessive concentration of lead in solders on the remote printed circuit board (PCB) and the printed circuit board (PCB) of the product

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PRODUCT	CONTENT
Camping shower	A solder in the product has an excessive concentration of lead
Toilet lamp	The solders in the product have an excessive concentration of lead
Night lamp	The plastic material of the product has an excessive concentration of bis(2-ethylhexyl) phthalate (DEHP), and dibutyl phthalate (DBP). The solders in the product have an excessive concentration of lead.
Unicorn children lamp	The solders in the product have an excessive concentration of lead
LED torch	The solders in the product have an excessive concentration of lead
Selfie stick	The solders have an excessive amount of lead

Violation on RoHS 2 & POP regulations:

PRODUCT	CONTENT
USB charger	The cord has an excessive concentration of short chain chlorinated paraffins (SCCPs) and dibutyl phthalate (DBP). The solder has an excessive concentration of lead
Projector pot	The plastic in a charger cable has an excessive concentration of dibutyl phthalate (DBP) and bis(2-ethylhexyl) phthalate (DEHP). The product has an excessive concentration of short chain chlorinated paraffins (SCCPs)
Children's camera	The plastic in a charger cable has an excessive concentration of bis(2-ethylhexyl) phthalate (DEHP). The product also has an excessive concentration of short chain chlorinated paraffins (SCCPs)
Children's smartwatch	The solder on the printed circuit board (PCB) has an excessive concentration of lead. The plastic in a charger cable has an excessive concentration of bis(2-ethylhexyl) phthalate (DEHP). The product has an excessive concentration of short chain chlorinated paraffins (SCCPs)
Music LED lamp	The plastic material of the product has an excessive concentration of bis(2-ethylhexyl) phthalate (DEHP). A plastic cord in the product has an excessive concentration of short chain chlorinated paraffins (SCCPs). The solders in the product have an excessive concentration of lead
Epilator	The solder in the product has an excessive concentration of lead. The cord has excessive concentrations of short chain chlorinated paraffins (SCCPs), bis(2-ethylhexyl) phthalate (DEHP) and dibutyl phthalate (DBP)

Hazards:

1. Lead: Poses a risk to the environment
2. Cadmium: It accumulates in the body, can damage the kidneys and bones and it may cause cancer.
3. Phthalates: May harm the health of children, possibly causing damage to their reproductive systems
4. SCCPs: Persistent in the environment and are toxic to aquatic organisms at low concentrations and bio-accumulate in wildlife and humans, posing a risk to human health and the environment. Prolonged exposure to them through the skin may cause cancer.

SGS's global network of laboratories can ensure your products meet the appropriate territorial regulations for food contact materials and help pave the way for compliance.

FOR ENQUIRIES

SGS HONG KONG

Electrical & Electronics Technology
Customer Service Team

t +852 2765 3617

f +852 2766 3778

e HK.EC.CSteam@sgs.com

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