

Qisda Management of Hazardous Substances and Chemicals

Items	Hazardous Substances	Chemical Management
Future Reduction Targets (Next 3-5 Years)	<ul style="list-style-type: none"> ● Target Year: July 21, 2026 ● Withdrawal of the following hazardous substances Target Value: <ul style="list-style-type: none"> • 5(b) Lead (not intentionally added) in soda lime glass used in the glass tube of fluorescent lamps, not exceeding 0,2 % by weight • 6(c) Copper alloy containing up to 4 % lead by weight • 7(c)- II Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher • 13(a) Lead in white glasses used for optical applications for categories 3, 4, 6, 7, 8, 9, and 11; 	<ul style="list-style-type: none"> ● Target Year:2029 ● Target Value: Starting from 2025, reduce annual usage by 2% each year
Reduction of Hazardous Substances or Chemicals in the Past Three Years	2022.07.21 Withdrawal of the following hazardous substances:	<ol style="list-style-type: none"> 1. S5 : Stop using lead-free board cleaning solution, replace with ethanol 2. S3 : Stop using P188 cleaning

	<ul style="list-style-type: none"> ● 6(b)-II-Lead asan alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight <p>2023:NA 2024: NA 2025:NA</p>	<p>agent for MI carrier mask cleaning</p> <p>3. DQ9 :</p> <p>① Lead-free board cleaning solution reduction</p> <p>② General ink reduction</p> <p>③ Complete replacement of oil-based paint - replaced in 2021</p> <p>④ S1 : Stop using cleaning agents E561I, DCT23, UP1900 by 2025</p>
Actions Taken in the Past Three Years to Reduce Hazardous Substances or Chemicals	<p>Qisda has consulted the ECHA public website to check for "substances nearing expiration and entering/completing evaluation but not yet updated to RoHS regulations," focusing on the clauses related to Qisda to ensure timely implementation. A year before the deadline in the evaluation report, Qisda confirms the implementation of relevant clauses and notifies suppliers through the GPMSA website to make changes to provide compliant parts.</p>	<p>1. S5 : Low volatile ethanol replaces highly volatile lead-free board cleaning solution</p> <p>Lead-free board cleaning solution VOC content: 749 (g/L), monthly usage about 500kg. Anhydrous ethanol VOC content: 677 (g/L), monthly usage about 100kg</p> <p>① Centralized management of maintenance workstation, changing from 1 bottle per station to shared use across</p>

		<p>multiple stations</p> <p>② Streamlined usage on site, distributed by station, collected after shifts</p> <p>2. S3 : Low VOC cleaning agent replaces high VOC cleaning agent, EC6008 (VOC content 54g/L) replaces P188 (VOC content 108g/L)</p> <p>3. DQ9 :</p> <p>① Lead-free board cleaning solution usage reduced by 60% (using dry ice cleaning as a substitute)</p> <p>② Ink usage reduced by 80% (using UV ink as a substitute)</p> <p>③ Paint usage reduced by 100% (using water-based paint as a substitute) - replaced in 20214.</p> <p>4. S1 : Low VOC cleaning agent replaces high VOC cleaning agent</p> <p>① R700 (VOC content: 49g/L)</p>
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		replaces DCT23 (VOC content: 281g/L) and UP1900 (VOC content: 290g/L) ② JB-608 (VOC content: 62.4g/L) replaces E5611 (VOC content: 87g/L)
Collaborations with External Units in the Past Three Years	Qisda' s Suppliers	
Risk Assessment Methods	Suppliers provide 3rd party lab test reports through the GPMSA website to confirm compliance with regulations.	Following the Chemical Control Banding (CCB) system, confirm the impact of the chemicals used on the environment and human health.