

Hazardous Chemicals and Materials Policy

OVERVIEW:

Tower Semiconductor uses a wide range of chemicals and materials in its IC manufacturing facilities.

Chemicals and materials are highly specific and essential to Tower process technologies and products. Tower has several active programs to control the use of hazardous chemicals and materials and follows some of the stringent standards in the semiconductor industry for protecting our customers, employees, and the environment.

Tower complies with applicable legislation and aims to stay ahead of new chemical legislation and customer requirements.

Production: Control chemical risks associated with worker health and safety and the environment, such as pollution and ozone depletion.

Product: monitor and control chemical risks associated with any products and shipping materials for our customers and the environment.

Chemical Control:

Before any new chemicals are purchased or brought onsite, approvals are required across multiple systems.

Parameter Target, define the chemical/gas impurities requirement from supplier.

Approved supplier, chemical/gas can be purchased only from approved supplier that was passing a site audit.

SDS Management all chemicals/gas SDS are managed in safety department.

Environmental Product Database, Tower is using chemical/gas suppliers database to ensure Materials are meet specifications.

Ozone Depleting Substances:

As of 2007, we phased out the use of all ODS in our manufacturing processes and these substances are now prohibited at our manufacturing sites. When an air-conditioning system that uses ODS refrigerants is scheduled for replacement, we replace it with a new system that doesn't use ODS. The majority of air conditioners that used ODS refrigerants have either been replaced or are in the process of being replaced wherever possible and practical.

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We hereby certify that, to the best of our knowledge, Tower has not used any ODCs in the manufacturing of any products sold to our customers.

Substances of concern:

Tower is committed to safe handling of all substances of concern. We continually search for alternative substances and aim to discontinue using all substances of concern wherever there is a safe, qualified and proven manufacturing alternative.

PFOS/PFOA

Tower complies with the World Semiconductor Council's (WSC's) Voluntary Agreement for PerFluoroOctyl Sulfonates (PFOS). In 2012, we eliminated all manufacturing uses of PFOS. In 2015, we also eliminated all manufacturing use of PerFluoroOctanoic Acid (PFOA).

Summary

Tower complies with the comprehensive external substance's regulations of **California Prop 65**, **EU REACH**, **EU RoHS**, and **Montreal Protocol**, as well as with other relevant industry standards applied to our industry.

Tower final products are annually audited by the external firm SGS Taiwan (www.sgs.tw), to ensure meeting the above listed regulations. Reports are available in Tower website (www.towersemi.com/manufacturing/quality).

In the rare case the customer has a concern regarding a specific material which is not listed in our SGS report, we will be happy to review whether this material is used in our facilities.

For farther questions please contact us at chemicals@towersemi.com

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