

**To: Our Valued Customers**

March 14, 2024

**Subject:** Acknowledgement of Compliance with the European Regulation (EC) Registration, Evaluation, Authorization of Chemicals (REACH) No. 1907/2006, in force since June 1, 2007.

**\* This document applies to all Renesas products including former Intersil, IDT and Dialog products.**

## Compliance

Renesas Electronics Corporation is aware of the REACH regulation and will take all necessary actions to fully comply with its requirements, especially Title VIII § 67 and Annex XVII.

## Pre-Registration / Registration

- 1) Renesas Electronics semiconductor devices do not exhibit intended release of chemical substances (listed in Annex XVII\*) under normal or reasonably foreseeable conditions of their application. In line with the REACH regulation there will be NO need to register any substance.
- 2) Following the in-depth evaluation of the chemical substance content in our products **Renesas Electronics confirms that Renesas devices except products mentioned on the following page do not contain any substances listed in SVHC-candidates published by ECHA January 23, 2024**. (Please refer to <https://echa.europa.eu/candidate-list-table>). Further details with regard to Renesas Electronics evaluation are provided on the following page.

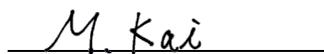
## Impact on availability of products

We confirm to undertake all necessary efforts to comply with REACH regulation to ensure continuous supply of Renesas Electronics products to our valued customers.

Best regards

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**Signature:**



## Renesas Electronics evaluated and reviewed the present status of SVHCs.

### 1) Renesas Electronics' products

Except below-mentioned products, Renesas Electronics' products do not contain any SVHCs listed in the following URL, in which the recently announced SVHCs are included (last update [January 23, 2024](#)).

<https://echa.europa.eu/candidate-list-table>

- a) Diboron trioxide (CAS No. = 1303-86-2)  
Traces of Diboron trioxide have been identified in some Fiberoptic devices, named NX\*\*\* and NR\*\*\* series.
- b) 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) (CAS No. = 2451-62-9)  
Traces of TGIC have been identified in Photodiode ICs, named PH\*\*\* series.
- c) N,N-dimethylacetamide (CAS No. = 127-19-5)  
Traces of N,N-dimethylacetamide have been identified in some LCD driver ICs, named UPD16\*\*\*N and UPD16\*\*\*NL series.
- d) Lead (CAS No. = 7439-92-1)  
Traces of Lead have been identified in some semiconductor devices that applied high melting solder (RoHS Exemption 7(a)).
- e) 4,4'-isopropylidenediphenol (Bisphenol A; BPA) (CAS No. = 80-05-7)  
Traces of Bisphenol A have been identified in BGA products, named BT-CCLs and BT-Prepregs.  
BT-CCLs : CCL-HL832, CCL-HL832EX, CCL-HL832HS, CCL-832NX(Type A)  
BT-Prepregs : GHPL-830, GHPL-830EX, GHPL-830HS, GHPL-830NX(Type A)
- f) 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CAS No. = 119313-12-1)  
In solder mask materials this substance has been found above a concentration 0.1 wt%,  
in substrate materials this substance has been found <0.1wt%, both used in these products:  
LFBGA : D3002AANB-CAAMV00,  
TFBGA : D2071xxx,  
VFBGA : D2071xxx, D2206xxx, D2330xxx, D2522xxx, D2798xxx, and D3080xxx.

### 2) Packing material

After July 2019, Renesas Electronics' packing material do not contain any SVHCs listed in the following URL, in which the recently announced SVHCs are included (last update [January 23, 2024](#)).

<https://echa.europa.eu/candidate-list-table>

Though, Renesas Electronics evaluated packing material produced before July 2019 and identified four hazardous substances, below.

- a) Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No. = 117-81-7)  
Traces of DEHP have been identified in some magazine sticks made of polyvinyl chloride (PVC).
- b) Dibutyl phthalate (DBP) (CAS No. = 84-74-2)  
Traces of DBP have been identified in some magazine sticks made of polyvinyl chloride (PVC).
- c) 1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP) (CAS No. = 68515-42-4)  
Traces of DHNUP have been identified in some magazine sticks made of polyvinyl chloride (PVC).
- d) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No. = 71888-89-6)  
Traces of DIHP have been identified in some magazine sticks made of polyvinylchloride (PVC).

### 3) Substances in glass

We have concluded that there is no duty under Article 33 to communicate information on substances in glass because of following reasons.

- a) The EU Commission and the Member States have come to a political compromise, that even though "Glass is the state of a substance rather than a substance as such", for legislative reasons glass should be treated as a UVCB substance. A UVCB substance is a substance of "Unknown or Variable composition, Complex reaction products or Biological materials". \*1)
- b) According to Regulation 987/2008 Annex II, glass is exempted from the obligation to register. \*2)
- c) European Glass Industries have concluded that there is no duty under Article 33 to communicate information on substances in articles for articles made entirely of glass. \*3)

\*1) Guidance for Annex V

[https://echa.europa.eu/documents/10162/23036412/annex\\_v\\_en.pdf/8db56598-f7b7-41ba-91df-c55f9f626545](https://echa.europa.eu/documents/10162/23036412/annex_v_en.pdf/8db56598-f7b7-41ba-91df-c55f9f626545)

\*2) Regulation 987/2008

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:268:0014:0019:en:PDF>

\*3) Glass, Glass articles and the EU REACH Regulation

[https://www.glassallianceeurope.eu/images/cont/gae-statement-for-customers-on-reach-may-2012\\_file.pdf](https://www.glassallianceeurope.eu/images/cont/gae-statement-for-customers-on-reach-may-2012_file.pdf)

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