

April 1, 2019

To: Panasonic Corporation of North America

**Non-use Warranty for Chemical Substances Pertaining to Products
Chemical Substances Management Rank Guidelines: Products, Ver. 11
Prohibited Substances Level 1**

SANYO Electric Co.,Ltd Life Solutions Division
Solar System Business Unit
Solar Strategic Business Unit
Quality Assurance Department

Nobuyuki Nishi

Solar Business Unit warrants that none of the following chemical substances are contained, or only less than the regulated values of the chemical substances are contained*¹, in VBHNxxxSA17 and VBHNxxxKA03 which this company delivers to Panasonic Corporation of North America. At the same time, this company also guarantees that no ozone-depleting substances (excluding HCFC) are used in the production process*².

Chemical Substances Management Rank Guidelines: Product, Ver. 11 Prohibited Substances Level 1 23 Substances/Groups of substances*¹ (For substance names, refer to the attached sheets.)	
1) Polychlorinated biphenyls (PCB) Polychlorinated terphenyls (PCT)	11) Lead and its compounds
2) Asbestos	12) Hexavalent chromium compounds
3) Specified organic tin compounds (1) Bis (tributyltin) oxide Tri-substituted organostannic compounds	13) Mercury and its compounds
4) Specified organic tin compounds (2) Dibutyltin compounds	14) Ozone-depleting substances (excluding HCFC)* ²
5) Specified organic tin compounds (3) Dioctyltin compounds	15) Hydrochlorofluorocarbons (HCFC)
6) Short-chain paraffin chloride (SCCP, C10-13)	16) Formaldehyde
7) Specified bromine-based flame retardants (PBB, and PBDE)	17) Perfluorooctane Sulfonate (PFOS) and its salts
8) Azo dye and pigment forming specified amines	18) Specified benzotriazole
9) Polychlorinated naphthalene (1 or more chlorine atoms)	19) Dimethylfumarate
10) Cadmium and its compounds	20) Polycyclic aromatic hydrocarbons (PAH)
	21) Hexabromocyclododecane (HBCD)
	22) Four phthalates (DEHP, BBP, DBP, and DIBP)
	23) Three chlorinated phosphate ester flame retardants (TDCPP, TCEP, and TCPP)
<p>*1: Guarantee contents relating to each chemical substance are based on "Table 1: List of Prohibited Substances Level 1 substances or groups of substances" in the Chemical Substances Management Rank Guidelines Ver. 11 issued by the Panasonic Group. In addition, regulated items are based on "Table 2: Regulated Items of Prohibited Substances Level 1" on the same document. The Appendix 1 on the same document shows "Prohibited substance" as example. Note that the Table 1 and 2, and the Appendix 1 of the Rank Guidelines are non-comprehensive lists which show some examples of substances belong to "Prohibited substance Level 1 substances or groups of substances"; the substances subjective to reference Directives include the substances which are not explicitly listed on the "Prohibited substance Level 1 substances or groups of substances."</p> <p>*2: Based on the Green Procurement Standards issued by the Panasonic Group.</p>	

Effective from January 2019 shipment
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