

ABSENCE DECLARATION (RoHS)

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Version 1.0

Products: the **Mitsubishi Chemical Advanced Materials stock shapes** mentioned below:

PE 500 natural and colours (black, blue, green, red, yellow)	TIVAR® 1000 UHMW-PE natural and colours (black, blue, green, red, yellow)
TIVAR® ECO green UHMW-PE	TIVAR® ECO black antistatic UHMW-PE
TIVAR® 1000 antistatic UHMW-PE	TIVAR® DrySlide UHMW-PE
TIVAR® TECH UHMW-PE	TIVAR® Cestidur UHMW-PE
TIVAR® DS UHMW-PE	TIVAR® Ceram P UHMW-PE
TIVAR® SuperPlus UHMW-PE	TIVAR® H.O.T. UHMW-PE
TIVAR® CleanStat UHMW-PE black	TIVAR® 1000 ASTL UHMW-PE
TIVAR® 1000 EC UHMW-PE	TIVAR® Oil Filled UHMW-PE
TIVAR® SurfaceProtect UHMW-PE	TIVAR® ChainLine UHMW-PE
TIVAR® Cestigreen UHMW-PE	TIVAR® Xtended Wear UHMW-PE
TIVAR® 88 UHMW-PE	TIVAR® 1000 ESd UHMW-PE
TIVAR® Burnguard UHMW-PE	TIVAR® Ceram P UHMW-PE
TIVAR® HPV UHMW-PE	TIVAR® MD UHMW-PE
Borotron® HM015 / HM030 / HM050 UHMW-PE	Borotron® UH015 / UH030 / UH050 UHMW-PE

To the best of our knowledge, we herewith confirm that the substances cadmium (Cd), lead (Pb), mercury (Hg), hexavalent chromium [Cr(VI)], polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP), regulated by the **Directive 2011/65/EU** of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances (**RoHS**) in electrical and electronic equipment, as amended up to and inclusive of the Commission Delegated Directive (EU) 2019/178, are neither intentionally introduced² during the production of the raw materials nor during the manufacture of the above mentioned **Mitsubishi Chemical Advanced Materials stock shapes**.

Since the presence of the above mentioned substances cannot reasonably be expected, Mitsubishi Chemical Advanced Materials does not systematically check their absence in its stock shapes by testing.

¹ This statement expires in case of regulatory or compositional changes. New statements are published on our website in case of alterations; previous statements then automatically become void. Please always consult our website for the latest version.

² “Intentionally introduced” means “deliberately utilised in the formulation of a material to facilitate manufacture or to provide a specific characteristic, appearance or quality”.

However, type tests carried out by an accredited independent laboratory on the **Mitsubishi Chemical Advanced Material stock shapes** mentioned above by means of ICP-MS (Inductively-Coupled-Plasma Mass-Spectrometry) showed the sum of the contents of the heavy metals cadmium, chromium, lead and mercury for each individual product mentioned above to be lower than 20 mg/kg (ppm), with the exception of **TIVAR MD**.

For most of these **Mitsubishi Chemical Advanced Materials stock shapes**, the contents of cadmium, chromium, lead and mercury even showed to be below the detection limits of the ICP-MS testing device used for each individual substance (cadmium: 0.5 ; chromium: 5 ; lead: 1 ; mercury: 0.5 mg/kg).

TIVAR MD stock shapes contain chromium in a concentration above 20 mg/kg, however the content of Cr(VI) is below the detection limit of 0.5 mg/kg.

Since additionally the **Quadrant EPP stock shapes** mentioned above do not at all contain flame retardants - flame retardants which could contain polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE), with the exception of **TIVAR Burnguard**, or plasticisers - plasticisers which could contain bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) or diisobutyl phthalate (DIBP), we therefore consider the requirements of the **Directive 2011/65/EU** as being met.

TIVAR Burnguard stock shapes contain a flame retardant exempt from polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).

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This document and any data and specifications presented on our website shall provide promotional and general information about the Engineering Plastic Products (the "Products") manufactured and offered by Mitsubishi Chemical Advanced Materials and shall serve as a preliminary guide. All data and descriptions relating to the Products are of an indicative nature only. Neither this brochure nor any data and specifications presented on our website shall create or be implied to create any legal or contractual obligation.

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