

## REACH / RoHS / PAHs

### REACH

REACH is a new European Community Regulation on chemicals and their safe use (EC1907/2006). It deals with the Registration, Evaluation, Authorisation and Restriction of Chemical substances. The new law entered into force on 1 June 2007. The aim of REACH is to improve the protection of human health and the environment through the better and earlier identification of the intrinsic properties of chemical substances. At the same time, innovative capability and competitiveness of the EU chemicals industry should be enhanced. The benefits of the REACH system will come gradually, as more and more substances are phased into REACH.

# REACH

### RoHS Compliance (Restriction of Hazardous Substances)

RoHS Compliance (Restriction of Hazardous Substances) is the nickname given to the European Union's directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment. RoHS is closely related to the European Union's directive 2002/96/EC on waste electrical and electronic equipment (WEEE). Now is the time to determine the impact of RoHS on one's business because the directive goes into effect on July 1, 2006.



#### RoHS Restricted Materials

Material & Toxicological Profile (pdf)	Maximum Concentration
<a href="#">Lead (Pb)</a>	0.1 % by weight
<a href="#">Mercury (Hg)</a>	0.1 % by weight
<a href="#">Cadmium (Cd)</a>	0.01 % by weight
<a href="#">Hexavalent Chromium (Cr-VI)</a>	0.1 % by weight
<a href="#">Polybrominated Biphenyls (PBB)</a>	0.1 % by weight
<a href="#">Polybrominated Diphenyl Ethers (PBDE)</a>	0.1 % by weight

### PAHs Compliance

Given the diverse usages of soft plastics and rubber materials in the most different products and the lack of binding concrete limit values, preliminary orientation values for PAH were voted agreed upon in the frame of an experts-discussion to which ALDI Süd and ALDI Nord in addition to several test institutions (among others TÜV Rheinland) as well as representatives of the Stiftung Warentest (institution for comparative testing of consumer products, founded by the German Government) and the BfR (German Federal Institute for Risk Assessment) were invited.

Based on the expected time of skin-contact, materials used in products have to meet at least

the following values:




TÜV Rheinland Group

Table 1: Maximum allowed values for PAH in materials of products for the final consumer according to the recommendations of the experts-discussion in Berlin, 02.08.2005

Parameter	Skin contact up to 30 sec	Skin contact longer than 30 sec
Benzo[a]pyrene mg/kg	20	1
Sum 16 PAH (EPA) mg/kg	200	10

The method should allow to determine concentrations of PAH components as low as 0.1 mg/kg.