

RoHS / REACH / WEEE Compliance Statement

LS Research is committed to providing our customers with safe and environmentally friendly products compliant with the European Union RoHS Directive (Restriction of Hazardous Substances) and REACH Regulation (Registration, Evaluation, Authorization and Restriction of Chemicals). This document serves to provide information on LS Research products relative to these directives, as well as our compliance status with the WEEE Directive (Waste Electrical and Electronic Equipment).

RoHS

On January 27, 2003, the European Parliament and the Council of the European Union authorized Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment. This Directive, also referred to as RoHS, required that manufacturers reduce usage of six hazardous substances to minimum acceptable levels by July of 2006.

The six substances affected are:

- Lead (Pb)
- Hexavalent chromium (Cr +6)
- Mercury (Hg)
- Polybrominated biphenyl (PBB)
- Cadmium (Cd)
- Polybrominated diphenyl ether (PBDE)

Based on our own internal analyses, vendor supplied analyses, and/or material certifications of the raw materials used in the manufacture of LS Research products, we declare that all LS Research products currently comply with and conform to RoHS regulations noting the few exceptions below:

Mini-gateway products (LSR p/ns 450-0025, 450-0026, 450-0027 and 450-0028)

Development kits (LSR p/ns 450-0021, 450-0023 and 450-0024)

It is expected that all LS Research products will be in full compliance of the RoHS Directive by early 2012.

REACH

REACH, EC 1907/2006, is the European Community Regulation on chemicals and their safe use. This legislation deals with the **R**egistration, **E**valuation, **A**uthorization and restriction of **C**hemical substances. The law entered into force on June 1, 2007. REACH obligates

manufacturers to ensure specified chemical usage is registered with the European Chemicals Agency (ECHA) in Helsinki, Finland. Registration includes supplying data such as chemical types and uses, volumes per annum and test data results.

As of March 2012, the ECHA had identified 73 "candidate" Substances of Very High Concern (SVHC) as listed below. Based on our own internal analyses, vendor supplied analyses, and/or material certifications of the raw materials used in the manufacture of LS Research products, we declare that all products, and their packaging, do not contain any of these SVHCs in any concentration above 0.1%.

- 1-methyl-2-pyrrolidone
- 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters C7-rich (DIHP)
- 1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)
- 1,2-dichloroethane
- 1,2,3-trichloropropane
- *2,4-Dinitrotoluene*
- 2-Ethoxyethanol
- 2-Ethoxyethylacetate
- 2-Methoxyaniline; o-Anisidine
- 2-Methoxyethanol
- 2,2'-dichloro-4,4'-methylenedianiline
- *4,4'- Diaminodiphenylmethane (MDA)*
- *5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)*
- Acrylamide
- *Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)*
- Aluminosilicate Refractory Ceramic Fibres
- Aluminosilicate Refractory Ceramic Fibres *
- *Ammonium dichromate*
- Anthracene
- Anthracene oil
- Anthracene oil, anthracene paste
- Anthracene oil, anthracene paste, anthracene fraction
- Anthracene oil, anthracene paste, distn. lights
- Anthracene oil, anthracene-low
- Arsenic acid
- *Benzyl butyl phthalate (BBP)*
- *Bis(2-ethylhexyl)phthalate (DEHP)*
- *Bis(2-methoxyethyl) ether*
- Bis(2-methoxyethyl) phthalate
- Bis(tributyltin)oxide (TBTO)
- Boric acid
- Calcium arsenate

- *Chromic acid, dichromic acid, oligomers*
- *Chromium trioxide*
- *Cobalt dichloride*
- *Cobalt carbonate*
- *Cobalt diacetate*
- *Cobalt dinitrate*
- *Cobalt sulphate*
- *Diarsenic pentaoxide*
- *Diarsenic trioxide*
- *Dibutyl phthalate (DBP)*
- Dichromium tris(chromate)
- *Diisobutyl phthalate*
- Disodium tetraborate, anhydrous
- Formaldehyde, oligomeric reaction products with aniline
- *Hexabromocyclododecane (HBCDD)*
- Hydrazine
- *Lead chromate*
- *Lead chromate molybdate sulphate red*
- Lead diazide, Lead azide
- Lead dipicrate
- Lead hydrogen arsenate
- Lead styphnate
- *Lead sulphochromate yellow*
- N,N-dimethylacetamide
- Octylphenol
- Pentazinc chromate octahydroxide
- Phenolphthalein
- Pitch, coal tar, high temp.
- *Potassium chromate*
- *Potassium dichromate*
- Potassium hydroxyoctaoxodizincatedichromate
- *Sodium chromate*
- *Sodium dichromate*
- Strontium chromate
- Tetraboron disodium heptaoxide, hydrate
- *Trichloroethylene*
- Trilead diarsenate
- Triethyl arsenate
- *Tris(2-chloroethyl)phosphate*
- Zirconia Aluminosilicate, Refractory Ceramic Fibres
- Zirconia Aluminosilicate Refractory Ceramic Fibres *

WEEE

Directive 2002/96/EC, or WEEE (Waste Electrical and Electronic Equipment), was authorized in January 2003 along with RoHS. This Directive encourages and sets specific criteria for the collection, handling and recycling of electric and electronic waste. Manufacturers became responsible for compliance to the WEEE Directive on August 13, 2005.

WEEE applies to electronic and electrical equipment (EEE) which falls within 10 categories identified in Schedule 1 of the WEEE regulations. All LS Research product currently available for sale in Europe must be integrated into finished goods applications, and therefore, does not meet the criteria for required compliance to the WEEE Directive.

This Compliance Statement is supported, in great part, by data provided by LS Research suppliers. We make no warranty as to the accuracy of such information. LS Research continues to obtain valid and certifiable third party information but has not necessarily conducted analyses on all purchased materials. In no event shall LS Research liability exceed the purchase price paid by the customer.