



1. PURPOSE and SCOPE

Compliance with this specification is required for Hach Company's suppliers ("Suppliers"). This specification defines requirements for Suppliers of any materials, components, parts or finished goods ("Supplied Materials") for Hach's use in or as products that it manufactures, assembles, markets, sells, and/or distributes. Specifically, this specification sets forth requirements for Supplied Materials that are subject to laws or regulations governing their reduction, elimination, exemptions, registrations, and/or declarations.

Suppliers should carefully read this entire document and thoroughly understand its requirements.

These requirements are based on specific global regulatory requirements. The Sections below set forth the applicable regulations (§2), restrictions (§3), certification requirements (§4), and communication requirements (§5). Annex I summarizes the Supplied Material restrictions and applicability to a commodity type in tabular format.

COMMODITY TYPE	COMMODITY SPECIFICATIONS	CODE
ELECTRONICS & ELECTRICAL EQUIPMENT	ANYTHING THAT REQUIRES POWER WHILE OPERATING, ELECTRONIC COMPONENTS, PCBA'S, POWER SUPPLIES, RESALE ITEMS THAT REQUIRE POWER, CABLE ASSEMBLIES, PUMPS, MOTORS, VALVES	ELE
MECHANICAL & PACKAGING ITEMS	ALL METAL & METAL PARTS, ALL PLASTICS & PLASTIC PARTS, HARDWARE, GLASSWARE, GLASS TUBES & VIALS, PLASTIC CAPS, OPTICAL COMPONENTS	MEC
CHEMICALS	ALL RAW SUBSTANCES AND MIXTURES OF CHEMICALS	CHE
OTHER	BOXES, PRINTED MATERIALS, RESALE ITEMS NOT INCLUDED ABOVE, ETC	OTH

2. ASSOCIATED DOCUMENTS / LEGISLATION

LEGISLATION	DESCRIPTION
DIRECTIVE 2002/95/EC	ROHS DIRECTIVE
DIRECTIVE 2011/65/EU	ROHS DIRECTIVE RECAST
REGULATION 765/2008	REQUIREMENTS FOR CE MARKING
DECISION 768/2008	CE CONFORMITY ASSESSMENT
REGULATION 1907/2006	REACH REGULATION
REGULATION 276/2010	ORGANOSTANNIC AMENDMENT TO REACH



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STANDARD SJ/T 11363-2006	MATERIALS RESTRICTIONS - CHINA ROHS
STANDARD SJ/T 11364-2006	MARKING - CHINA ROHS
CALIFORNIA PROPOSITION 65	SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT
CALIFORNIA PERCHLORATE	BEST MANAGEMENT PRACTICES FOR PERCHLORATE
IMERC	US STATE REGULATIONS ON MERCURY IN PRODUCTS
SECTION 1502 OF DODD-FRANK	CONFLICT MINERALS
EN 50581:2012	EU STANDARD FOR ROHS RECAST TECHNICAL FILE
SOR/2014-254	PRODUCTS CONTAINING MERCURY REGULATIONS

3. RESTRICTIONS

3.1 RoHS

- 1) Supplied Materials provided to Hach Company shall comply with the material restrictions of Article 4 of the RoHS Directive recast (2011/65/EU).
- 2) No substances above the levels described in Annex II of RoHS recast will be permitted in homogeneous materials with the following exceptions:
 - a) The part or material benefits from an active and valid exemption listed in either Annex III or Annex IV (if applicable) of RoHS recast.
 - b) The part or material falls into one of the categories below and is out of scope of the RoHS recast material restrictions requirements.

PART TYPE	REASON OUT OF SCOPE
BATTERIES	BATTERIES AND BATTERY PACKS ARE NOT COVERED BY ROHS
PRODUCT PACKAGING DISCARDED BY THE USER	NOT INTENDED TO STAY WITH THE PRODUCT FOR ITS ENTIRE LIFETIME
CONSUMABLES	NOT INTENDED TO STAY WITH THE PRODUCT FOR ITS ENTIRE LIFETIME
PRODUCT DOCUMENTATION	NOT INTENDED TO BE DISPOSED OF IN THE SAME WASTE STREAM AS THE EEE
SOFTWARE	NOT A PHYSICAL PART OR MATERIAL OF THE FINAL PRODUCT

3.2 Dibutyl Tin

- 1) Parts and materials provided to Hach Company shall comply with the dibutyl tin restrictions of Regulation 276/2010 amending the REACH Regulation 1907/2006.
- 2) Dibutyl tin above 1,000 ppm of tin is not allowed in homogenous parts and materials provided to Hach Company.



3.3 Conflict Minerals

- 1) Tin, tantalum, tungsten, and gold (3TGs) in parts and materials provided to Hach Company are required to be conflict free by 1 January 2015.
- 2) In advance of 1 January 2015, Hach Company's suppliers are required to be working towards becoming conflict free and sourcing only from smelters certified by the conflict free smelter (CFS) program.
- 3) See the conflict minerals sections of the materials declaration / certification section of this document for more information.

4. MATERIAL DECLARATION / CERTIFICATION

4.1 RoHS

- 1) Suppliers of Supplied Materials must provide a certificate of compliance, material declaration, or test report for RoHS and valid information on any RoHS exemptions used.
- 2) The certificate of compliance, material declaration, or test report must conform to the requirements of EN 50581:2012.
- 3) Valid certificates of compliance, material declarations, or test reports can take the form of any of the following:

DECLARATION TYPE	DECLARATION BY	ACCEPTABLE DOCUMENTS
SUPPLIER DECLARATION	MANUFACTURER, DISTRIBUTOR, OR SUPPLIER	CERTIFICATE OF COMPLIANCE
MATERIAL DECLARATION	MANUFACTURER OR SUPPLIER DECLARATION	MANUFACTURER MATERIAL DECLARATION TO EN 62474:2012 OR EQUIVALENT
TEST REPORT	ANY	TEST REPORT TO EN OR IEC 62321

- 4) A certificate of compliance, materials declaration, or test report shall:
 - a) Include the part or material in question
 - b) Include the name of the declaring company, preferably with a signature
 - c) Clearly indicate compliance to RoHS
 - d) Identify the use of any valid exemptions
 - e) Be properly reviewed and correct to the best of the supplier's knowledge.

4.2 REACH Substances of Very High Concern (SVHC)



- 1) Upon request, suppliers of parts shall provide information on whether any of the parts or materials they supply to Hach Company contains any SVHCs above 0.1% w/w.
- 2) Further details are provided in the communication requirements section of this document.

4.3 Conflict Minerals

- 1) Upon request, suppliers of parts shall provide information regarding the country of origin and conflict free nature of the tin, tantalum, tungsten, or gold (3TGs) in their product.
- 2) The information must be provided in a valid EICC-GeSI reporting template.
- 3) Suppliers whose parts and products do not contain 3TGs are excluded from the extended reporting requirements if they provide an EICC-GeSI reporting template with the lack of 3TGs in their parts and materials clearly identified.

4.4 China RoHS

- 1) Upon request, suppliers of parts shall provide restricted materials information required under China RoHS.
- 2) The requested information could include:
 - a) Environmental friendly use period and labelling (in years)
 - b) Hazardous Substance Disclosure Table.
 - c) Product labeling.

5. COMMUNICATION REQUIREMENTS

5.1 REACH Substances of Very High Concern (SVHC)

- 1) Suppliers to Hach Company are required to inform Hach Company if any of the parts and materials contains any REACH SVHCs above 0.1% w/w.
- 2) Suppliers to Hach Company are expected to keep up to date on new additions to the REACH SVHC list and inform Hach Company promptly if there is a change in a part or material REACH SVHC declaration.

5.2 California Proposition 65

- 1) Suppliers to Hach Company are required to inform Hach Company if any of the parts and materials supplied to Hach Company contains a California Proposition 65 listed substance and the quantity or concentration of the listed substance in the part or material.
- 2) Suppliers to Hach Company are required to inform Hach Company if any of



the parts and materials supplied to Hach Company contains any plastics having Pb in excess of 300 ppm.

5.3 Mercury

- 1) Suppliers to Hach Company are required to inform Hach Company if any of the parts and materials supplied to Hach Company contains any intentionally added mercury or mercury compound, the amount or concentration of the intentionally added mercury or mercury compound, and the location of the mercury or mercury compound in the part or material. Additionally, suppliers are required to inform Hach Company if any of the parts and materials supplied to Hach Company contain Hg above 0.1% w/w that is not intentionally added.

5.4 Li Perchlorate and Other Perchlorates

- 1) Suppliers to Hach Company are required to inform Hach Company if any of the parts and materials supplied to Hach Company contains any perchlorates. Specifically, the presence of perchlorate which is primarily found in lithium button cell batteries used as memory back up. Additionally, suppliers to Hach Company are required to inform Hach Company of the presence of any perchlorate at greater than 6 ppb in any part or material supplied to Hach Company.



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Annex I – Requirements (Summary)

RESTRICTIONS		
Regulation	Under Scope	Materials/Components
ROHS DIRECTIVE RECAST (2011/65/EU)	(ELE, MEC) PARTS, COMPONENTS AND PACKAGING INTENDED FOR ELECTRICAL OR ELECTRONIC PRODUCTS	Maximum 1000 ppm: Pb, Hg, Cr 6+, PBB, PBDE. Maximum 100 ppm: Cd.
REGULATION 276/2010 AMENDING THE REACH REGULATION 1907/2006	(ELE, MEC, CHE, OTH) ALL HOMOGENEOUS PARTS & MATERIALS	Dibutyl tin above 1,000 ppm
MONTREAL PROTOCOL	(ELE, MEC, CHE, OTH) ALL PARTS & MATERIALS	Ozone Depleting Substances
SECTION 1502 OF DODD-FRANK	(ELE, MEC) ALL 3TGs PROVIDED TO HACH COMPANY NEED TO BE CONFLICT FREE BY 1 JANUARY 2015	Tin, tantalum, tungsten, and gold (3TGs)
3A (DAIRY)	(ELE, MEC) PARTS, COMPONENTS INTENDED FOR USE WITH DAIRY PRODUCTS (FLUID CONTACTING)	ANY SUBSTANCE ON STANDARD LIST THAT CONTACTS MILK)
LOW VOLTAGE DIRECTIVE (2006/95/EC)	(ELE, MEC) SAFETY CRITICAL PARTS AND MATERIALS AS SPECIFIED ON PRODUCT SAFETY LISTS SPECIFIED	AS STATED ON PRODUCT SAFETY DRAWINGS AND LISTING REPORTS
ATEX/HAZ-LOC (94/9/EC)	(ELE, MEC) PARTS, COMPONENTS AND PACKAGING INTENDED FOR ELECTRICAL OR ELECTRONIC PRODUCTS	AS STATED ON PRODUCT SAFETY DRAWINGS AND LISTING REPORTS

Material/Component Declaration / Certification – Upon Request		
Regulation	Under Scope	Materials/Components
DIRECTIVE 2002/95/EC ROHS DIRECTIVE	(ELE, MEC) ALL COMPONENTS AND MATERIALS INTENDED FOR ELECTRICAL PRODUCTS	Maximum 1000 ppm: Pb, Hg, Cr 6+, PBB, PBDE. Maximum 100 ppm: Cd.
REGULATION 1907/2006 REACH REGULATION	(ELE, MEC, CHE, OTH) ALL PARTS & MATERIALS	REACH SVHC Candidate List
SECTION 1502 OF DODD-FRANK	(ELE, MEC) ALL 3TG CONTAINING PARTS OR MATERIALS – EICC-GESI DECLARATION	Tin, tantalum, tungsten, and gold (3TGs)
STANDARD SJ/T 11364-2006 CHINA ROHS	(ELE, MEC) ALL COMPONENTS AND MATERIALS INTENDED FOR ELECTRICAL PRODUCTS	Maximum 1000 ppm: Pb, Hg, Cr 6+, PBB, PBDE. Maximum 100 ppm: Cd.
LOW VOLTAGE DIRECTIVE (2006/95/EC)	(ELE, MEC) SAFETY CRITICAL PARTS AND MATERIALS AS SPECIFIED ON PRODUCT SAFETY LISTS SPECIFIED	AS STATED ON PRODUCT SAFETY DRAWINGS AND LISTING REPORTS
ATEX/HAZ-LOC (94/9/EC)	(ELE, MEC) SAFETY CRITICAL PARTS, MATERIALS & ASSEMBLIES AS SPECIFIED BY APPLICABLE SAFETY STANDARDS	AS STATED ON PRODUCT SAFETY DRAWINGS AND LISTING REPORTS



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COMMUNICATION REQUIREMENTS – If Present		
Regulation	Under Scope	Materials
REGULATION 1907/2006 REACH REGULATION	(ELE, MEC) ALL PARTS & MATERIALS	Must declare all REACH SVHC's on The ECHA SVHC Candidate List
IMERC US STATE REGULATIONS ON MERCURY IN PRODUCTS	(ELE, MEC, CHE, OTH) ALL HOMOGENEOUS PARTS & MATERIALS	Any intentionally added Hg
CALIFORNIA PERCHLORATE BEST MANAGEMENT PRACTICES FOR PERCHLORATE	(ELE, MEC, CHE, OTH) ALL HOMOGENEOUS PARTS & MATERIALS	Lithium perchlorate content
CALIFORNIA PROPOSITION 65 SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT	(ELE, MEC, CHE, OTH) ALL HOMOGENEOUS PARTS & MATERIALS	Substances found on the OEHHA Proposition 65 Substance List
3A (DAIRY)	(ELE, MEC) PARTS, COMPONENTS INTENDED FOR USE WITH DAIRY PRODUCTS (FLUID CONTACTING)	ANY SUBSTANCE ON STANDARD LIST THAT CONTACTS MILK
LOW VOLTAGE DIRECTIVE (2006/95/EC)	(ELE, MEC, CHE, OTH) SAFETY CRITICAL PARTS AND MATERIALS AS SPECIFIED ON PRODUCT SAFETY LISTS SPECIFIED	AS STATED ON PRODUCT SAFETY DRAWINGS AND LISTING REPORTS
ATEX/HAZ-LOC (94/9/EC)	(ELE, MEC, CHE, OTH) SAFETY CRITICAL PARTS, MATERIALS & ASSEMBLIES AS SPECIFIED BY APPLICABLE SAFETY STANDARDS	AS STATED ON PRODUCT SAFETY DRAWINGS AND LISTING REPORTS

Revision History				
Revision #	ECO #	Date Released	Initiator	Description of Change
A	N/A		Merle Atwood	Initial Document Release
B	14-1143	12/18/2014	Merle Atwood	Removed specific medical requirements and updated I-Merc
C	15-963	6/4/2014	Merle Atwood	Added supply Certification, and definition of supplier and supplied materials, removal of supplier Certification
D	15-1103	10/23/2015	Merle Atwood	Added "Supplier Certification" page to document
E	16-347	7/7/2016	Merle Atwood	Added Commodity code to more clearly define applicability