

## 1. INTRODUCTION

REACH deals with the Registration, Evaluation, Authorization and Restriction of Chemicals and entered into force on June 1, 2007. REACH is designed to further improve the protection of human health and the environment through a clearer and faster identification of certain chemicals. This legislation of the European Union shall apply to all suppliers (inside and outside Europe) who sell, import or manufacture “articles”, i.e. chemicals and / or products with certain chemicals within the European Union.

## 2. DEFINITIONS

### 2.1 Substances of Very High Concern

Substances that may have serious and often irreversible effects on human health and the environment can be identified as Substances of Very High Concern (SVHCs) if the criteria are fulfilled. REACH provides a Candidate list with SVHC which is updated approximately every six months;

### 2.2 The definition of an article

As defined in ECHA’s (European Chemicals Agency) “Guidance on requirements for substances in articles” ([https://echa.europa.eu/documents/10162/23036412/articles\\_en.pdf/cc2e3f93-8391-4944-88e4-efed5fb5112c](https://echa.europa.eu/documents/10162/23036412/articles_en.pdf/cc2e3f93-8391-4944-88e4-efed5fb5112c)) “an article is an object made from one or more substances or mixtures which were given a specific shape, surface or design during the production process”. According to the Guidance an article will remain an article, even though articles are assembled or joined together, until they become waste.

## 3. REACH OBLIGATIONS

### 3.1 Registration

Manufacturers and importers of substances (on their own, in mixtures or in certain articles) have a general obligation to submit a registration to the European Chemicals Agency for each substance manufactured in or imported to EU/EES in quantities of 1 tonne or more per year and per company.

### 3.2 Communication

According to REACH regulations we have the duty to inform customers of all our products containing SVHC on the candidate list - if they are present in a concentration of >0.1% of the weight of any article of any component or product. We are required to provide recipients of the article with, as a minimum, the name of the substance in order to allow safe use of the article.

**OUR APPROACH****4.1 Code of Conduct for Suppliers**

At Toyota Material Handling Europe (TMHE) we are committed to being the first choice partner for all customers looking for materials handling solutions. We will do this by providing high-quality, innovative products, services and added-value solutions while using resources in a sustainable, socially and environmentally responsible manner. In order to build trust and confidence and to show our commitment to Corporate Social Responsibility (CSR) throughout the entire value chain of our operations, including our suppliers, we ask all our suppliers to agree with our Code of Conduct for Suppliers, which contains following requirements regarding management of substances of concern:

*“Suppliers shall comply with any applicable laws and regulations such as REACH<sup>1</sup> and RoHS<sup>2</sup> prohibiting or restricting the use or handling of specific substances. To ensure safe handling, movement, storage, recycling, reuse, and disposal, Suppliers shall identify, manage and list Substances of Concern as required by each TMHE entity (any presence of such substances shall be reported via prescribed reply form) and comply with applicable labelling laws and regulations for design, manufacturing, recycling and disposal.”*

**4.2 Informing customers**

At TMHE we are committed to the EU’s objective to reduce the number of substances of concern such as SVHC’s in circulation, as well as to transparency towards our customers, we provide this information publicly. Through our ongoing awareness raising efforts with customers on the topic of sustainability, we will direct customers to this page.

At this point in time (12<sup>th</sup> of July 2018), SVHC on the candidate list have been identified in “articles” contained in products in the table below:

**APPENDIX**

Appendix 1: Articles that currently contains SVHC





Appendix 2: New manufactured articles that no longer contains SVHC




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<sup>1</sup> EU Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

<sup>2</sup> Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment

**APPENDIX 1 Articles that currently contains SVHC**


Product Family	Article	Article Number	Substances of Very High Concern	Comments
Autoshuttle PAE150	FX3U-32BL Backup Battery 	7590719	The battery contains 1,2-dimethoxyethane (ethylene glycol dimethyl ether, EGDME)	The battery is enclosed inside the PLC inside the electrical box and will never come in contact with the user. For any support or maintenance of the electrical box, the customer should always contact the vendor.
Autoshuttle PAE150	Ultrasonic sensor 	7590751	Lead titanium zirconium oxide, CAS-nr 12626-81-2	The material is in the piezo crystal of the transducer inside the sensor. The material will never come in contact with the user, nor service personnel.
BT Reflex RRE120B/140B/160B	Relay 	7534003	The contact contains cadmium oxide	According to the material declaration from the supplier of the assembled electronic unit, the article containing the substance will be found on the contacts. It is enclosed in a plastic housing and will therefore not come in contact with the user of the truck under normal use. For any maintenance on the relay, the customer should always contact the vendor.
BT Staxio SPE200D/DN SPE120/140/160/200/120L/140L/ 160L/200L/140S SPE120XR/XRD SWE145/160/200/145L/160L/200L/ 140S/120XR SAE160, LAE250,SWE 120I	Motorcontroller 	7539116-001, 7539116-002 7539116-603	Some subparts in the motor controller contains Lead-titanium-trioxide CAS-number 12060-00-3, Lead-monoxid CAS-number 1317-36-8, Diboron-trioxide CAS-number 1303-86-2, 1-Methyl-2-pyrrolidine (NMP) CAS-number 872-50-4	According to the material declaration from the supplier of the assembled electronic unit, the articles containing these substances will be found on the printed circuit board. It is enclosed in a plastic housing and will therefore not come in contact with the user of the truck under normal use. For any maintenance on the motor controller, the customer should always contact the vendor.

Product Family	Article	Article Number	Substances of Very High Concern	Comments
BT Reflex RRE140H-250H RRE160HR	Motorcontroller	7577098-001, 7577099-001	Some subparts in the motor controller contains Lead-titanium-trioxid CAS-nr 12060-00-3, Lead-monoxide CAS-nr 1317-36-8, Diboron-trioxide CAS-nr 1303-86-2, Boric acid 10043-35-3	According to the material declaration from the supplier of the assembled electronic unit, the articles containing these substances will be found on the printed circuit board. It is enclosed in a plastic housing and will therefore not come in contact with the user of the truck under normal use. For any maintenance on the motor controller, the customer should always contact the vendor.
Fleet management	Data Handling Unit (DHU2) 	7556555 -xxx	Some LEDs contain, 3,5-Tris(oxiranylmetyl)-1,3,5-triazin-2,4,6(1H,3H,5H)-trion (TGIC) with CAS-number 2451-62-9	According to the material declaration from the supplier of the assembled electronic unit, the articles containing these substances will be found on the printed circuit board. It is enclosed in a plastic housing and will therefore not come in contact with the user of the truck under normal use. For any maintenance on the DHU2, the customer should always contact the vendor.
			Some Resistors and Capacitors contain Diboron trioxide with CAS-number 1303-86-2	
Hand Pallet Trucks BT Lifter HHL100	Ultrasonic sensor 	7590073	Lead titanium zirconium oxide, CAS-nr 12626-81-2	The material is in the piezo crystal of the transducer inside the sensor. The material will normally not come in contact with the user, nor service personnel. Unless the transducer is damaged.
RRE,OME, VRE RAE 160/200/250	Lithium battery 	7577595 7525401	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME) CAS: 110-71-4	A control assembly contains a lithium battery. The substance is used as a solvent in the sealed batteries. There is no intended release of the substance. Batteries are collected according to the battery directive (2006/66/EC).
All trucks	Adhesive labels	Several	Reaction mass of DOTE and MOTE: Reaction mass of 2-ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-ditia-4-stannatetradecanoate and 2-ethyl-hexyl-10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-ditia-4-stannatetradecanoate	The substance is heat stabilizer of the PVC carrier material. Work is in progress to substitute the substance by the manufacturer.

Product Family	Article	Article Number	Substances of Very High Concern	Comments
OME, OSE, TSE, OAE	Seal of bearing 	29882	Di(2-ethylhexyl) phthalate DEHP CAS: 117-81-7	The seal is an enclosed part of the steering arm and will not come in contact with the user of the truck under normal use.
LRE200, SRE135, SRE135L, SRE160, SRE160L	Q8 Brake Fluid	755705	4,4'-isopropylidenediphenol (Bisphenol A; BPA) CAS: 80-05-7	This is a hydraulic brake fluid. Service technicians may risk to be exposed for example when aerating the brake system. After 13 <sup>th</sup> of September the chemical product has been substituted to Q8 Brake Fluid DOT 4+, trucks produced after this date does not contain Bisphenol A.
Lead Batteries	Lead batteries	Several	Lead CAS: 7439-92-1	Risk information for users and service technicians will be provided after information is received from suppliers. Batteries are collected according to the battery directive (2006/66/EC).
All trucks	Electronics	Several	Lead CAS: 7439-92-1	Lead is used in the soldering process for electronics. Low risk for users and service technicians. Further risk information will be provided after information is received from suppliers.
All trucks	Metal materials	Several	Lead CAS: 7439-92-1	For example Steel according to BT76-01-009, Steel are specified to contain 0,15-0,35 % Lead, to improve machinability. Risk information for users and service technicians will be provided after information is received from suppliers.

Product Family	Article	Article Number	Substances of Very High Concern	Comments
All trucks	Paint	Several	Benzen-1,2,4-trikarboxylsyre 1, 2-anhydrid CAS: 552-30-7	Safety Data Sheet includes risk of skin allergy. Further risk information will be provided after information is received from suppliers.

**APPENDIX 2 New manufactured articles that no longer contains SVHC**

Product Family	Article	Article Number	Substances of Very High Concern	Comments
Hand Pallet Trucks BT Lifter HHL100	Contactora 	7537283	One subpart contained N,N-dimethylacetamide (DMAC) with CAS-number 127-19-5	<p>This substance has been substituted 2017-09-27 according to the supplier.</p> <p>Previously it was present in a subpart of an isolation washer out of Nomex® that contained a substance listed on the Candidate List. For more information about the NOMEX® material see DuPont REACH web site: <a href="http://reach.dupont.com">http://reach.dupont.com</a></p>
BT OME 100 W/MW, OMC, OMCW, SPT2.0, SPS 1.6	Contactora	153252		
BT OME 100 W/MW, OMC, OMCW, SPT2.0, SPS 1,6, SL2.0	Contactora	153254		
BT OME 100 W/MW, OMC, OMCW, SPT2.0, SPS 1,6, SL2.0, RRB1-B8, E1-E8, N1-N3, M12-M14	Contactora	153255		
BT OME 100 W/MW, OMC, OMCW, SPT2.0, SPS 1,6, SL2.0, RRB1-B8, E1-E8, N1-N3, M12-M14	Contactora	153851		
BT RRB1-B8, E1-E8, N1-N3, M12-M14	Contactora	153852		
BT OME 100 W/MW, OMC, OMCW, SPT2.0, SPS 1.6 LSV/LSF/LST	Contactora	154626		
BT OME 100 W/MW, SPS 1.35 LSV/LSF/LS, LSE200, LAE250, OSE 120CB	Contactora	226709		
BT Staxio SSE160D BT Staxio SSE135/160/135L/160L BT Levio LSE200 BT Optio OME100M/MW7W	Contactora	226710		
BT Staxio SSE160D BT Staxio SSE135/160/135L/160L BT Levio LSE200 BT Optio OME100M/MW7W	Contactora	226712		
BT LRE300/300T	Contactora	226715		

Product Family	Article	Article Number	Substances of Very High Concern	Comments
BT Reflex RRE120M/140M/160M	Contactora	226716		
BT Staxio RWE120	Contactora	226717		
BT Staxio SWE080L	Contactora	226720		
BT P24, AL24, LPE 240, SAE140, LAE240, OSE 120/180/250/XP	Contactora	226721		
BT LWE100/130, HWE 100	Contactora	226722		
BT Levio LRE300/300T	Contactora	227741		
BT Levio LSE200 BT Staxio SSE160D	Contactora	230888		
BT Reflex FRE270 BT Vector VCE125/150	Contactora	236414		
BT Levio LWE130/ BT Staxio HWE100/100S	Contactora	238759		
BT Staxio SWE080L/100/120/140/120S/120L/ 140L SWE200D BT Levio LWE140/160/180/200/250	Contactora	248310		
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140 BT Levio LPE200/220/250	Contactora	248311		
BT Reflex RRE140-250B/E BT Reflex RRE160R BT Vector VRE125/150 BT Optio OME100H/100HC BT Optio OME120HW/120HWC	Contactora	249354		
BT Levio LRE200/ BT Staxio SRE135/SRE160/SRE135L/SRE160 L	Contactora	257832		
BT Reflex RRE120B/RRE140B/RRE160B	Contactora	7540648		
BT Reflex RRE140H-250H	Contactora	7580320		
BT Staxio HWE100/100S, BT Levio LWE130	Contactora	7571938		
BT LRE 200, SRE 135/160	Contactora	257831		



Product Family	Article	Article Number	Substances of Very High Concern	Comments		
BT LRE 200, SRE 135/160	Contactora	257833				
BT OP 1000, OPW1200	Contactora	257834				
BT OP 1000, OPW1200	Contactora	257835				
BT OP 1000, OPW1200	Contactora	257836				
BT OP 1000, OPW1200	Contactora	7529344				
BT LPE 200/220/250, PAE150, SWE 140-200, SPE140-200, SPE200DN	Contactora	7535701				
BT LPE250	Contactora	7600012				
BT LPE200/200/250	Contactora	7614236				
BT RRE140-250	Harness	7507541			Tris(2-chloroethyl) phosphate (TCEP) CAS-number 115-96-8	This substance has been substituted 2017-10-03 according to the supplier.  The tape attached to the harness used to contain this substance. Release to the environment can occur with slow mitigation rate in long life materials.
BT Levio LWE140/160/180/200/250	Harness	7516554				
BT Staxio SWE080L/100/120/140	Harness	7516588				
BT OSE180X /XP	Harness	7517475				
BT RRE140/160/180/200/250	Harness	233582				
BT RRE140/160/180/200/250	Harness	7538552				
BT LPE 200 (Orion)	Harness	7539816				
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7540950				
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7540951				
BT RRE140/160/180/200/250	Harness	7548635				
BT LPE200/220/250 BT SPE120/140/160/200 BT SWE145/160/200	Harness	7524346				
BT LPE200/220/250 BT SPE120/140/160/200 BT SWE145/160/200	Harness	7521678				
BT LPE200/220/250 BT SPE120/140/160/200	Harness	7532358				
BT LPE200/220/250	Harness	7538224				
BT LPE200/220/250	Harness	7536625				
BT SPE120/140/160/200	Harness	7540030				
BT RRE120GRIM/RRE140GRIM/ RRE160GRIM	Harness	7566687				

Product Family	Article	Article Number	Substances of Very High Concern	Comments
BT RRE120B/140B/160B	Harness	7534649		
BT RRE120B/140B/160B	Harness	7535046		
BT RRE120GRIM/RRE140GRIM/ RRE160GRIM	Harness	7543377		
BT RRE180/200/250	Harness	7562529		
BT SWE145/160/200	Harness	7540031		
BT SWE145/160/200 BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7571377		
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7573837		
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7573840		
BT RRE140/160/180/200/250 BT VRE125/150, VRE125SF	Harness	7573848		
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7572589		
BT SWE145/160/200 BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7572453		
BT SWE145/160/200 BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7579666		
BT SWE145/160/200 BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7579667		
BT Levio LWE140/160/180/200/250 BT Staxio SWE080L/100/120/140	Harness	7583456		
BT LPE200/220/250	Harness	7584512		
BT LPE200/220/250	Harness	7584513		
BT SPE120/140/160/200	Harness	7591991		
BT SWE145/160/200	Harness	7593033		
BT RRE140H/160H	Harness	7606608		
BT LPE200/220/250	Harness	7605226		
BT LPE200/220/250	Harness	7609129		