

Title:

Controlled Substances

Scope:
This document is valid for all organisational units of Bombardier Transportation. Compliance to this Standard is mandatory.

This Standard is valid for all Bombardier Transportation products including all articles, materials and mixtures that are designed, purchased, manufactured or supplied to Bombardier Transportation.

It is further valid for all articles, materials and mixtures that are specified by Bombardier Transportation for use in assembly, production or maintenance.

Purpose / Summary:
This Standard fully implements the UNIFE Railway Industry Substance List within Bombardier Transportation. The Railway Industry Substance List has been commonly agreed among the major railway industry companies and defines certain substances that are to be controlled.

This Standard establishes a common base for the control of substances across all Bombardier Transportation organisational units. Stricter controls or additional substances may be defined by Bombardier Transportation based on specific legal, customer or local requirements.

	Functions																				
	Bid	Communications	Engineering	Field Support	Finance	General Management	Health, Safety & Environment	Human Resources	Information Services	Legal & Bid Approval	Marketing	Operations	Operations & Maintenance	Procurement	Product Planning	Project Management	Quality	Sales	Strategy	Eco Design Network	
R = Responsible																					
A = Accountable (Process Owner)																					
C = Consulted																					
I = Informed (see 000001)																					
Process Stakeholders	I	I	A	I	I	I	R	I	I	I	I	I	I	I	I	I	I	I	I	C	

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1 Introduction

All Bombardier Transportation products shall conform to the provisions of this Standard on Controlled Substances. The Standard is valid for all products, including all articles, materials and mixtures that are designed, purchased, manufactured or supplied to Bombardier Transportation. It is further valid for all articles, materials and mixtures that are specified by Bombardier Transportation for use in assembly, production or maintenance.

A substance is defined either as a Prohibited substance or as a Declarable substance. Certain Declarable substances are further identified as Priority phase-out substances with stricter control and high priority for elimination.

It shall be noted that there may be stricter controls or additional substances defined by Bombardier Transportation based on specific legal, customer, or local requirements.

2 Railway Industry Substance List

Bombardier Transportation has together with the major Railway Industry companies agreed on a common list of substances that are to be controlled. The UNIFE Railway Industry Substance List is entirely implemented within Bombardier Transportation through this Standard.

The Railway Industry Substance List is available at www.unife-database.org. It classifies substances in the following two categories:

- Prohibited (in Area of Restriction) = P(AR)
- Declarable (For Assessment) = D(FA)

It shall be noted that the Railway Industry Substance List will be revised on a regular basis, following changes in legislation and other requirements.

2.1 Prohibited (in Area of Restriction)

A Prohibited substance, P(AR), shall not be used in a product in the controlled application, as specified in the Railway Industry Substance List. In all other applications the substance shall be regarded as Declarable (For Assessment) substance.

2.2 Declarable (For Assessment)

A Declarable substance, D (FA), shall not be used in a product unless approval has been granted. All Declarable substances shall be declared using the UNIFE Material Declaration Template, UNI-CR-001, or other format as specified by Bombardier Transportation.

3 Priority phase-out substances

Certain Declarable substances have been identified by Bombardier Transportation as Priority phase-out substances. These substances have a high priority for elimination and require additional phase-out information to be provided using the Derogation request template, Doc ID-number 000016, or other format as specified by Bombardier Transportation.

The substances or substance groups identified as Priority phase-out substances by Bombardier Transportation are detailed in Appendix 1.

4 Supporting documents

Supporting Bombardier Transportation documents are available at:
www.transportation.bombardier.com/suppliers

Supporting UNIFE documents, the Railway Industry Substance List and the UNIFE Material Declaration Template, UNI-CR-001, are available at www.unife-database.org

5 Definitions and Abbreviations

<u>Term</u>	<u>Definition</u>
Article	An object which during production is given a special shape, surface, or design which determines its function to a greater degree than its chemical composition. This may include components, parts, assemblies, or sub-assemblies.
Material	The matter from which something is or can be made. Material may be raw or processed and its function is determined mainly by its chemical composition.
MCV	Maximum Concentration Value
Mixture	A mixture or solution comprised of two or more substances. Mixtures may include paints, adhesives, fuels, lubricants, coolants, or cleaning agents
POPs Regulation	Regulation (EC) No 850/2004 on persistent organic pollutants
Product	An object that Bombardier Transportation designs, procures, manufactures, or places on the market, including all articles, materials, or mixtures. In the context of this standard, this does not include software or services rendered.
REACH	Regulation (EC) No 1937/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). For further information see: www.echa.europa.eu/web/guest/regulations/reach/legislation
REACH Annex XIV	Regulation (EC) No 1937/2006 Article 56: List of Substance subject to authorisation
RoHS	Directive No 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment
Substance	A chemical element and its compound in the natural state or obtained by any manufacturing process
UNIFE	The Association of the European Rail Industry, www.unife.org

6 Reference Documents

Doc ID-#	Rev-#	Type	Title
- 000016	03	Template	Bombardier Transportation Derogation Request for Declarable Substances
- UNI-CR-001	01	Template	UNIFE Material Declaration Template

The current status of each business process document is documented on the coversheet of the available document in the respective database (e.g. in the eBTM).

7 Approval Information

Prepared:	Saemundur Weaving EcoDesign	e-approved	2015-03-26
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Released:	Sara Paulsson / EcoDesign	e-approved	2015-04-13
	Process Owner	Signature	Date (yyyy-mm-dd)
Translated by:		Translation approved by:	Translation Languages:

8 Revision Log

Revision	Date of Release	Description of changes
00	2002-09-16	First release
01	2005-06-01	Changed format and reviewed listed substances
02	2009-10-23	Format overhaul, updated substances and added Swiss legislation
03	2011-06-20	Format simplified, content aligned with the Railway Industry Substance List
04	2013-02-22	Complete implementation of the Railway Industry Substance List and introduction of Priority phase-out substances
05	2015-04-13	Scope: Updated to bring in line with OneBT terms Purpose/summary: Removed text that is repeated in sections 1-4 § 1: Removed reference to this standard by the doc number, Removed "of the product" § 5: Updated material related terms, added elimination date Appendix 1: Removed entries for lead chromate, lead sulforchromate yellow, and lead chromate molybdate, removed elimination date for chlorinated solvents, changed elimination date for chromium VI, updated chromium VI and SCCP legislation

9 Appendix 1 Priority phase-out substances

Bombardier Transportation identifies the following substances or substance groups as Priority phase-out substances.

Substance	CAS number	EC number	Elimination date	Applicable legislation / Policy	Exemptions
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	2015-02-21	REACH Annex XIV	-
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	2015-02-21	REACH Annex XIV	-
Chlorinated Solvents	-	-	-	Corporate Target	Use in mixtures
Chromium VI (including plated articles)	-	-	2017-09-21	Corporate Target REACH Annex XIV RoHS	Alloying ingredient Lower than RoHS MCV
Tris (2-chloroethyl) phosphate (TECP)	115-96-8	204-118-5	2015-08-21	REACH Annex XIV	-
Hexabromocyclo-Decane (HBCDD), alpha-hexabromocyclododecane, beta-hexabromocyclododecane, gamma-hexabromocyclododecane	3194-55-6, 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8	221-695-9, 247-148-4	2015-08-21	REACH Annex XIV	-
Dibutyl phthalate (DBP)	84-74-2	201-557-4	2015-02-21	REACH Annex XIV	-
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	2015-02-21	REACH Annex XIV	-
Alkanes, C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8	287-476-5	-	POPS Regulation REACH Candidate List, CH SR 814.81 Annex 1 - Specific substances	-