

Title:

Bombardier Transportation Controlled Substances

Scope:

This Standard shall be implemented in all Bombardier Transportation Divisions, Business Units, Sites and Legal Entities. Compliance to this Standard is mandatory.

This Standard is valid for all Bombardier Transportation products including articles, materials and mixtures designed, purchased, manufactured or supplied to Bombardier Transportation. It is further valid for articles, materials and mixtures specified by Bombardier Transportation for use in assembly, production or maintenance of the product.

Purpose / Summary:

This Standard fully implements the UNIFE Railway Industry Substance List, www.unife-database.org, 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.

The Railway Industry Substance List classifies a substance as either Prohibited (in Area of Restriction) or Declarable (For Assessment). A Prohibited substance shall not be used in a Bombardier Transportation product. A Declarable substance shall not be used unless approval has been granted.

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.

This Standard establishes a common base for the control of substances across all Bombardier Transportation Divisions, Business Units, Sites and Legal Entities. Stricter controls or additional substances may be defined by Bombardier Transportation based on specific legal, customer or local requirements.

Table of Contents

The table of contents is on page two of this document.

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Table of Contents

Section	Subject	Page
1	Introduction	3
2	Railway Industry Substance List	3
2.1	Prohibited (in Area of Restriction)	3
2.2	Declarable (For Assessment)	3
3	Priority phase-out substances	3
4	Supporting documents	3
5	Definitions and Abbreviations	4
6	Reference documents	4
7	Approval Information	4
8	Revision Log	5
Appendix 1	Priority phase-out substances	6

1 Introduction

All Bombardier Transportation products shall conform to the provisions of this Standard Controlled Substances, Doc ID-number 000014. The Standard is valid for all products including articles, materials and mixtures designed, purchased, manufactured or supplied to Bombardier Transportation. It is further valid for articles, materials and mixtures specified by Bombardier Transportation for use in assembly, production or maintenance of the product.

A substance is defined either as a Prohibited substance or as a Declarable substance. Certain Declarable substances are 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 a 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-001.00, 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-001.00, are available at: www.unife-database.org

5 Definitions and Abbreviations

Term	Definition
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
Material	The matter from which something can be made. Material can include but is not limited to raw and processed material, components, parts, assemblies, sub-assemblies, fuels, lubricants, coolants, and cleaning agents that may be consumed directly or indirectly
MCV	Maximum Concentration Values
Mixture	A mixture or solution composed of two or more substances e.g. paint and adhesives
Product	An object that Bombardier Transportation designs, procures, manufactures or places on the market including articles, materials and mixtures. This does not include software and services.
REACH	Regulation (EC) No 1907/2006 concerning 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 1907/2006 Article 56 List of Substances subject to authorisation
RoHS	Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment
Substance	A chemical element and its compounds 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-number	Title
- 000016	Bombardier Transportation Derogation request for Declarable Substances (Template)
- UNI-CR-001.00	UNIFE Material declaration (Template)

7 Approval Information

Prepared:	Saemundur Weaving / DfE Expert	e-approved	2013-02-15
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8 Revision Log

Revision	Date of Release	Description of changes
0	2002-09-16	First release
1	2005-06-01	Second release. Changed format and reviewed substances
2	2009-10-23	Third release. Format overhaul, updated substances and added Swiss legislation
3	2011-06-20	Format simplified, content aligned with the Railway Industry Substance List
4	2013-02-22	Complete implementation of the Railway Industry Substance List and introduction of Priority phase-out substances

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	-	-	2014-12-31	Corporate Target	Use in mixtures
Chromium VI (including plated articles)	-	-	2014-12-31	Corporate Target, RoHS	Alloying ingredient Lower than RoHS MCV
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	204-118-5	2015-08-21	REACH Annex XIV	-
Hexabromocyclodo-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	-
Lead chromate	7758-97-6	231-846-0	2015-05-21	REACH Annex XIV	-
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	2015-05-21	REACH Annex XIV	-
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	2015-05-21	REACH Annex XIV	-
Alkanes, C ₁₀ -C ₁₃ , chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8	287-476-5	-	REACH Annex XVII (42.), REACH Candidate List, CH SR 814.81 Annex 1 - Specific substances	-