



Engineering Standards

Name	SUBSTANCES,PROHIBITED AND RESTRICTED	Number	10903
Identifier	ADMINISTRATIVE SPECIFICATION (SOURCE CONTROL)	Engineering Standard Number	10903

1. Scope

This standard covers prohibited and restricted substances on or in supplies provided to and/or provided by Cummins. This standard describes the current policies, regulations and directives which restrict the use of hazardous substances. The requirements apply to all materials, components, items and associated packaging purchased by Cummins and to all Cummins Products.

2. Applicable Documents

Applicable documents listed below may be obtained from the respective organizations listed in CES 10054, Standards Organizations Addresses.

- a. CES 10054, Standards Organizations Addresses
- b. CES 10056, Glossary

3. Definitions

Terms used in this standard that have a general definition for usage in Cummins Engineering Standards are defined in CES 10056, Glossary.

3.1. Declarable List Substance

A declarable list substance is a substance that is restricted and/or prohibited by one or more regulations. Declarable list substances cannot be used without documented prior approval from Cummins for use of the specific substance in the specific item.

3.2. FMD – Full Materials Declaration

A full materials declaration provides the % weight of each individual material in the part and the % weight of each substance which is intentionally added to each material. All materials on the declarable list shall be declared. Content of undeclared materials that are not in the declarable list, may not exceed 10%.

3.3. Prohibited List Substance

A prohibited list substance is a substance that is not permitted to be present in any items as an intentional addition and is not permitted to be present in any items as a residual above a threshold value. (See also [Appendix A: Prohibited List Substances on page 4.](#))

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4. Specifications

4.1. General Requirements

All materials, items and components shall conform to the laws, regulations, prohibitions and restrictions on content applicable to their application(s), places of origin/manufacture, transit paths, places of sale, and places of use. Supplies include but are not limited to: materials, components, parts, items, preservatives, packaging, wraps, plugs, oils, greases, coatings, coolants, paints, markings, labels, preservatives/corrosion inhibitors and any other substance associated with the item, component, and/or substance. This standard supplements but does not supersede the responsibility of each supplier to comply with the laws and regulations and marking requirements applicable in the regions in which the products are sold.

Suppliers' data will be used as part of proof of legal compliance. Cummins requires suppliers to declare the content of all substances present where the substance is present at or above the defined threshold value (weight percentages) in any homogeneous layer or feature of the material or component and/or the substance is present as an intentional addition. The content of both intentional and unintentional additions shall be declared. Where substances are listed in this standard with lower threshold contents, suppliers are additionally required to declare and report the content of those substances.

As an obligation of supplying Cummins and in accordance with the Cummins Supplier Code of Conduct, commercial agreements, and purchase orders, suppliers shall provide disclosure of the substances contained within the supplies sold to Cummins on an ongoing basis. Certain substances are prohibited from being used in certain applications and markets. The supplier shall declare content of any of these substances present in preproduction and production materials and items to Cummins for review and disposition prior to sending the material/items containing the listed substances to Cummins. The supplier shall provide item specific declarations upon proposed material changes to the item (prior to any implementation), upon regulation changes, upon substance list changes, and on Cummins request. The supplier shall obtain the applicable written approvals/exemptions for authorized use of listed substances prior to source release of preproduction parts and prior to PPAP of new/revised parts.

Relevant regulatory requirements and guidance documents include, but are not limited to, those listed in the Resource tab in the Cummins Prohibited and Declarable Substance Lists excel sheet found at <https://public.cummins.com/sites/CSP/en-us/Pages/Materials-Disclosure-Guide.aspx>.

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4.2. Prohibited List Substances

All materials and items shall conform to the prohibitions on content of prohibited list substances listed in [Table A1: Substances on page 4](#). No intentional addition of prohibited list substances permitted. Natural occurrence as a trace substance below threshold % (wt./wt.) at homogeneous material level is permitted and shall be declared. The supplier shall declare content of any of these substances present to Cummins for review and disposition prior to sending the material/parts containing the listed substances to Cummins. Note that lower threshold and limit values may apply to some applications.

All materials and items shall conform to the restrictions on content of prohibited list substances listed at <https://public.cummins.com/sites/CSP/en-us/Pages/Materials-Disclosure-Guide.aspx>

4.3. Declarable List Substances

All materials and items shall conform to the restrictions on content of declarable list substances listed at <https://public.cummins.com/sites/CSP/en-us/Pages/Materials-Disclosure-Guide.aspx>

A declarable list substance is a substance that is restricted and/or prohibited by one or more regulations and where the item that is not permitted to be present in any items as an intentional addition and/or as a residual above a threshold value where the item will be going into applications/ locations where the regulations apply. Declarable list substances cannot be used without documented item specific (i.e., by part number) prior approval from Cummins for use of the specific substance in the specific item (i.e. part number). Any intentional additions of declarable list substances shall be declared regardless of the threshold value. Prior to documented item specific (i.e., by part number) approval for use from Cummins, declarable list substances shall be treated as prohibited list substances. The supplier shall submit FMD containing all substances present (intentional and/or unintentional additions) in materials and components in weight percentages in any homogeneous layer and obtain the applicable written approvals/exemptions from the Cummins' Materials Declaration Team for authorized use of substances in the list of declarable substances prior to shipping of product or material to Cummins (including preproduction items and including PPAP of new/revised items).

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Appendix A: Prohibited List Substances

The list of Prohibited list substances includes, but is not limited to those listed in [Table A1: Substances on page 4](#) below. Any content of the substances listed shall be reported regardless of the threshold value.

Note: There may be lower threshold values/limits for some applications.

Note: Threshold Weight % is the natural occurrence as a trace substance below threshold % (wt./wt.) at homogeneous material level.

Note: Effective date: If a date is listed, then the substance cannot be used after the date.

Table A1: Substances

Row Number	Substance	Threshold Weight % (in any Homogeneous Layer)	Potentially Found in (but not limited to):	Effective date
012-1	Asbestos, Asbestos Containing Materials	0.1, no intentional additions	gasket material, heat and flame resistant materials, actinolite, tremolite, crocidolite, amosite, chrysotile anthophyllite	1988
012-2	Polychlorinated Biphenyls (PCBs)	0.0002 (0.005 for Pigments allowed (BAT))	transformers, capacitors	historical

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Table A1: Substances (Continued)

Row Number	Substance	Threshold Weight % (in any Homogeneous Layer)	Potentially Found in (but not limited to):	Effective date
012-3	Arsenic and its compounds	0.01 (unless present in metals & alloys, then limit is 0.05)	electronics, paints, metal alloys, ceramics, solder, arsinates, arsenates, ars, arsenite, arsenide, arseno, arsono, arsenic, arsone	historical
012-4	Hexavalent Chromium, chromium VI compounds	0.1	electroplating, passivation, anodized, pigments, dyes, bichromate, chromate, dichromate, chromic acid, chromic acid salts, dioxo-chromium, chromium chlorides, chromium chlorooxide, acids generated from chromium trioxide and their oligomers	historical
012-5	Cyanide and its compounds	0.01	plating, metal treatment	historical

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Table A1: Substances (Continued)

Row Number	Substance	Threshold Weight % (in any Homogeneous Layer)	Potentially Found in (but not limited to):	Effective date
012-6	Radioactive substances	Shall not emit any type of ionizing radiation in excess of 0.5 μ Sv/hr (50 μ R/hr) above background level when measured at all distance of less than one meter.	contaminated metals, contaminated polymers, high intensity lamps	historical
012-7	Phenol, Isopropylated Phosphate (PIP (3:1))	0.05, no intentional additions	polymers, plasticizers, flame retardants, anti-wear additives, anti-static agents, lubricants, oils, coatings, adhesives, sealants	1 March 2024
012-8	Decabromodiphenyl Ether (DecaBDE)	0.1, no intentional additions	polymers, flame retardants, adhesives, sealants, coatings	6 January 2022
012-9	2, 4, 6-tris (tert-butyl)phenol (2, 4, 6-TTBP)	0.1, no intentional additions	polymers, fuels, lubricants, adhesives, antioxidants	6 January 2026

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Table A1: Substances (Continued)

Row Number	Substance	Threshold Weight % (in any Homogeneous Layer)	Potentially Found in (but not limited to):	Effective date
012-10	Hexachlorobutadiene (HCBBD)	0.1, no intentional additions	elastomers, polymers, lubricants, adhesives	8 March 2021
012-11	Pentachlorothiophenol (PCTP), pentachlorobenzenethiol	1.0, no intentional additions	elastomers, polymers, lubricants, adhesives	6 January 2022
012-12	Bis (2-ethylhexyl) phthalate (DEHP)	0.1, no intentional additions	wiring harnesses, hoses, tubers, clips, isolators, water pumps	22 July 2024

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