

## Cummins ECM (Electronic Control Module)

### Introduction

According to Article 33 (Duty to communicate information on substances in articles) of the REACH regulation, EU REACH Regulation 1907/2006 (and UK equivalent), *“Any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0,1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.”*.

### Declaration of Use of Candidate List substances in Products

Cummins works actively to avoid and phase out Prohibited Substances in its products. See more information on Prohibited Substances on the [Prohibited Substances](https://public.cummins.com/prohibited-substances) page at public.cummins.com.

Under REACH, an ECM (Electronic Control Module) is considered a complex object because it is made up of more than one article. On a complex object level, the ECM does not contain any Candidate List substance of a concentration above 0.1% by article weight. However, constituent articles (sub-components) may contain such concentrations.

This declaration covers sub-components for all variants of the ECM and reflects the most recent update of the REACH Candidate List.

This declaration lists all Candidate List substances which could be found in concentrations above 0.1% by weight in sub-components. The identified parts are listed by part number, name, and information on where to find those parts in the fuel pump, and a reference to the contained substance(s).

### Change Log

Issue 1: Initial release. Dated 4-7-22.

Issue 2: Added “4,4'-Isopropylidenediphenol”.

Added “2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBA)”.

Changed text from “is” to “could be” in Identified Sub-Components Contained in ECM section.

Dated 5-2-23.

Issue 3: Added SVHC Bis( $\alpha,\alpha$ -dimethylbenzyl) peroxide (CAS No: 80-43-3)

Dated 8-14-2024

## Identified Candidate List Substances Contained in ECM

Substance ID	Name (en-GB)	CAS Number	EC Number	Date of Inclusion
A	Lead	7439-92-1	231-100-4	27/06/2018
B	4,4'-Isopropylidenediphenol	80-05-7	201-245-8	12/01/2017
C	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBA)	79-94-7	201-236-9	17/01/2023
D	Bis( $\alpha,\alpha$ -dimethylbenzyl) peroxide	80-43-3	201-279-3	27/06/2024

## Identified Sub-Components Contained in ECM

Substance concentration of 0.1% by weight could be exceeded in the parts and/or components denoted using curved brackets (e.g. {Flange bearing 3850-0134477-000 (285888916)}). Cummins part numbers are provided as a unique identifier for that component and are identified using parentheses inside the curved brackets.

ID	Path to Sub-Parts Containing Substances	Substance ID
1	[ECM Bracket] [Molded ECM Bracket 5450641] {Insert, Threaded (CS48197)}	A
2	[ECM-OH-01 OH6 Production Control Module (MPC5642) [WGE 410 Final Assembly BOM] [WGE 410 Final Assembly BOM] {HT SNK-PRNT WIR BD (VPCWGF-14A638-BA)}]	A
3	[ECM-OH-01 OH6 Production Control Module (MPC5642) [WGE 410 Final Assembly BOM] [WGE 410 Final Assembly BOM] {CVR-ENG Eletr Contr Proc TR (VPCWGF-12B523-BA)}]	A
4	[ECM Bracket] {Insert, Threaded (11SMnPb30)}	A
5	[ECM Bracket] {Insert, Threaded (5274630)}	A
6	[ECM ASM-CM2670A] {CIR BD ASM-CMP,CM2670A (28676072)}	A
7	[ECM ASM-CM2670E] {CIR BD ASM-CMP,CM2670E (28686557)}	A
8	[Module ASM-PD-A ECM] [ECU-ASM CM2880 PD-A] {CIR BD ASM-CMP PD-A (28508564)}	A
9	[Module ASM-CM2880 PD-F ECM] [ECU-ASM CM2880 PD-F] [CIR BD ASM-CMP PD-F] [CIR BD S/A-HP2 PD-F] {CIR BD S/A-HP1 PD-F (28605673)}	A
10	[W/H ECM] {TRML 110 SKT APEX Au(CSA 0.5-1.0) (14004918)}	A
11	[W/H ECM] {TRML F JPT Au (CSA 0.50-1.0); Terminal Body (80001995)}	A
12	[Module ASM-CM2880 FP-G ECM] [ECU-ASM CM2880 FP-G] [CIR BD ASM-CMP FP-G] [CIR BD S/A-HP2 FP-G] [CIR BD S/A-HP1 FP-G] {CIR BD S/A-SM1 FP-G (28605680)}	A
13	[W/H ECM] [Resistor Assy] [PCB Assembly] {Pin Contact (1060-008-16321)}	A

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ID	Path to Sub-Parts Containing Substances	Substance ID
14	[Module ASM-CM2880 PD-F ECM] [ECU-ASM CM2880 PD-F] [CIR BD ASM-CMP PD-F] [CIR BD S/A-HP2 PD-F] {14uH_Toroid_Inductor_G113517ALF (28332037)}	B
15	[Module ASM-CM2880 FP-G ECM] [ECU-ASM CM2880 FP-G] [CIR BD ASM-CMP FP-G] [CIR BD S/A-HP2 FP-G] {14uH_Toroid_Inductor_G113517ALF (28332037)}	B
16	[W/H ECM] [Resistor Assy] [PCB Assembly] {PC Board (1064-002-0305)}	C
17	[Module, Engine Control] [Pressure Switch] [Pressure Switch 2872070] [O-RING 212-025-01] {(212-025-01)}	D
18	[MODULE,ELECTRONIC CONTROL] [Temperature Sensor] [Gasket] {(53-09-52-084-28-B)}	D

## Information on Safe Use of the Substance(s) in the Sub-Components

In general, the Cummins Engine manual provides information on the safe handling of Cummins' engines and components. If available to Cummins, specific REACH Article 33 information on the safe use of sub-components can be found here:

ID	Information on Safe Use
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