

Cummins Turbo Charger

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, a turbo charger is considered a complex object because it is made up of more than one article. On a complex object level, the turbo charger 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 turbo charger 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 turbo charger, and a reference to the contained substance(s).

Change Log

Issue 1: Initial release.

Issue 2: Removed Cadmium as a substance, as below declarable level.

Issue 3: Removed “Decabromodiphenylether” as a substance.

Dated 4-22-22.

Issue 4: Changed text from “is” to “could be” in Identified Sub-Components Contained in Turbo Charger section.

Dated 5-2-23.

REACH

Issue 5: Added SVHC Triphenyl phosphate (CAS No: 115-86-6) and O,O,O-triphenyl phosphorothioate (CAS No: 597-82-0).
Dated 2-28-25.

Identified Candidate List Substances Contained in Turbo Charger

Substance ID	Name (en-GB)	CAS Number	EC Number	Date of Inclusion
A	Lead	7439-92-1	231-100-4	27/06/2018
B	Triphenyl phosphate	115-86-6	204-112-2	07/11/2024
C	O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	21/01/2025

Identified Sub-Components Contained in Turbo Charger

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	[Turbocharger] [Turbocharger.ID17.HX40W] {Bearing (3503100)}	A
2	[Turbocharger] [Turbocharger.ID17.HX40W] {Elbow Hose (3528121)}	A
3	[Turbocharger] [Turbocharger.ID17.HX40W] {Bearing Thrust (3595651)}	A
4	[Turbocharger] [Turbocharger.ID17.HX40W] [Rod End Assy] {Nut (Adjusting) (HA26001-017-01)}	A
5	[Turbocharger HE351W] [ID17 Turbocharger HE351W] {Bearing (4038357)}	A
6	[Turbocharger HE351W] [ID17 Turbocharger HE351W] {Elbow Hose (3528121)}	A
7	[Turbocharger HE351W] [ID17 Turbocharger HE351W] {Bearing Thrust (3595651)}	A
8	[Turbocharger HE351W] [ID17 Turbocharger HE351W] [Rod End Assy] {Nut (Adjusting) (HA26001-017-01)}	A
9	[Turbocharger HX35W] [Turbocharger.ID17.HX35W] {Elbow Hose (3528121)}	A
10	[Turbocharger HX35W] [Turbocharger.ID17.HX35W] {Bearing Thrust (3595651)}	A
11	[Turbocharger HX35W] [Turbocharger.ID17.HX35W] {Bearing (3503100)}	A
12	[Turbocharger HX55] [Turbocharger.ID1.HX55] {Compressor Cover (4038841)}	A
13	[Turbocharger HX55] [Turbocharger.ID1.HX55] {Plate Oil Seal (3528096)}	A

REACH

ID	Path to Sub-Parts Containing Substances	Substance ID
14	[Turbocharger HX55] [Turbocharger.ID1.HX55] {Bearing (3591655)}	A
15	[Turbocharger HX55] [Turbocharger.ID1.HX55] {Bearing (3534833)}	A
16	[Turbocharger] [Turbocharger.ID17.HE200FG] [Core Assembly.HE200WG] {Bearing (3773689)}	A
17	[Turbocharger HE500WG] [Turbocharger.ID.17.HE500WG] {Plate Oil Seal (3528096)}	A
18	[Turbocharger HE500WG] [Turbocharger.ID.17.HE500WG] {Bearing Thrust (4038031)}	A
19	[Turbocharger HE500WG] [Turbocharger.ID.17.HE500WG] {Bearing (3534833)}	A
20	[Turbocharger HE500WG] [Turbocharger.ID.17.HE500WG] {Spacer Mounting (3532195)}	A
21	[Turbocharger] [Turbocharger ID21] [Turbocharger ID17] [VGT Europa Actuator No watercooling Non FEP PCB] [Output Gear Assembly] [Grease GHY133] {Petamo GHY 133 N (0002P1002)}	B
22	[ID 17 TURBOCHARGER HX60W V0] [HOUSING,TURBINE.HX60W.ASSY] [ACTUATOR ASSEMBLY] [PISTON GUIDE] {PES+PTFE (RTP 1403)}	B
23	[HE500VG TURBOCHARGER] [TURBOCHARGER.ID17.HE500VG] [SRA 2 BROADBILL (BKA - LF)] [GENERAL ASSEMBLY] [COVER WATER ASM] [ACTUATOR ASM] [COOLING BODY ASM] [COOLING BODY WITH ADHESIVE] [COOLING BODY WITH MOTOR] [MOTOR ASSEMBLY (24V) – LF] [STATOR ASM COMPETE (24V) – LF] [STATOR ASM W/ BERING PRESS (24V) – LF] [Shell BRG] [Grease -L162-Molykote 7514] {Grease L162 (001948067-0000)}	C
24	[HE400VG Turbocharger] [TURBOCHARGER.ID17.HE400VG] [SRA 2 BROADBILL (BHA - LF)] [GENERAL ASSEMBLY] [ACTUATOR ASM] [COOLING BODY ASM] [COOLING BODY WITH ADHESIVE] [COOLING BODY WITH MOTOR] [MOTOR ASSEMBLY (24V) – LF] [STATOR ASM COMPETE (24V) – LF] [STATOR ASM W/ BERING PRESS (24V) – LF] [Shell BRG] {Grease L162 (001948067-0000)}	C

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' engine 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
---	No Information Available