

Cummins Genset

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

Change Log

Issue 1: Initial release.

Issue 2: Added four substances: “Melamine”, “RCF (Refractory Ceramic Fibres)”, “Bis(4-chlorophenyl) sulphone”, and “2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBA)”.

Removed two substances: “Imidazolidine-2-thione (2-imidazoline-2-thiol)” and “Decabromodiphenylether”.

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

Dated 10-3-23.

Issue 3: Added two substance “Bumetrizole” and “Bis(α,α -dimethylbenzyl) peroxide”.

Dated 08-14-2024

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Issue 4: Added SVHC Triphenyl phosphate (CAS No: 115-86-6), O,O,O-triphenyl phosphorothioate (CAS No: 597-82-0) and Octamethyltrisiloxane (CAS No: 107-51-7).
Dated 2-28-25.

Identified Candidate List Substances Contained in Genset

Substance ID	Name (en-GB)	CAS Number	EC Number	Date of Inclusion
A	Lead	7439-92-1	231-100-4	27/06/2018
B	Cobalt(II) dinitrate	10141-05-6	233-402-1	15/12/2010
C	Melamine	108-78-1	203-615-4	17/01/2023
D	Diboron trioxide	1303-86-2	215-125-8	18/06/2012
E	Lead titanium trioxide	12060-00-3	235-038-9	19/12/2012
F	Cobalt(II) sulphate	10124-43-3	233-334-2	15/12/2010
G	Lead monoxide (lead oxide)	1317-36-8	215-267-0	19/12/2012
H	Cadmium	7440-43-9	231-152-8	20/06/2013
J	Boric acid	10043-35-3	233-139-2	18/06/2010
K	RCF (Refractory Ceramic Fibres)	142844-00-6	604-314-4	19/12/2011
L	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	14/06/2023
M	N,N-dimethylacetamide	127-19-5	204-826-4	19/12/2011
N	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBA)	79-94-7	201-236-9	17/01/2023
O	Bumetrizole	3896-11-5	223-445-4	23/01/2024
P	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	201-279-3	27/06/2024
Q	Triphenyl phosphate	115-86-6	204-112-2	07/11/2024
R	O,O,O-triphenyl phosphorothioate	597-82-0	209-909-9	21/01/2025
S	Octamethyltrisiloxane	107-51-7	203-497-4	21/01/2025

Identified Sub-Components Contained in Genset

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 in <u>Engine</u>	Substance ID
1	[Engine] [MQS 1.5] [Socket Contact] {Clean Body (P00009907)}	A

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ID	Path to Sub-Parts Containing Substances	Substance ID
2	[Engine] {TERMINAL (300006520)}	A
3	[Engine] {TERM F W/P SN SEALED TANG (3613338)}	A
4	[Engine] [Plumbing, Exh Rcn Water] {Coupling, Plain Hose (4942109)}	A
5	[Engine] [ARRANGEMENT, OIL FILL] {Connection, Adapter (3965712)}	A
6	[Engine] [Plumbing, Exh Rcn Water] {COUPLING, PLAIN HOSE (4941864)}	A
7	[Engine] [Plumbing, Exh Rcn Air] [Temperature Sensor] [Term./Insulator/Therm Assy. 914-163-01] [Therm. / Term. Asm. 916-260-01] {NTC Glass-encaps. Sensor (803-123-02)}	A
8	[Engine] [Plumbing, Exh Rcn Air] [Temperature Sensor] [Term./Insulator/Therm Assy. 914-163-01] [Therm. / Term. Asm. 916-260-01] [NTC Glass-encaps. Sensor] {Glass Tube LG-16 2,1*1,3*5,0 (C61063A2913C10)}	A
9	[Engine] [Gauge, Oil Level] {Fitting, Tube (3969068)}	A
10	[Engine] {Main bearing_BC-1115-I-STD (3944153)}	A
11	[Engine] {Main bearing_BC-1065-S-STD (3944163)}	A
12	[Engine] {Main bearing_BC-1115-S-STD (3944158)}	A
13	[Engine] {Camshaft Bushing-Ec-430-U (394532)}	A
14	[Engine] [Pump, Fuel] {Radial Piston Pump; CR/CP3HS3/L110/30-78 (5592045)}	A
15	[Engine] [INJECTOR] [CONNECTOR, INJ FUEL SUPPLY] {EDGE-TYPE FILTER / STABFILTER (F00ZF20001)}	A
16	[Engine] [PLUMBING, TURBOCHARGE HOSE, FLEXIBLE] [Nipple Assembly] {Nipple (FC1802-0606S)}	A
17	[Engine] [PLUMBING, TURBOCHARGE HOSE, FLEXIBLE] [Nipple Assembly] {Nipple (FW1161-0606S)}	A
18	[Engine] [BLOCK, CYLINDER] {Main bearing upper 3850-20100211-001 (5344833)}	A
19	[Engine] [BLOCK, CYLINDER] {Main bearing lower 3850-20100224-001 (5344834)}	A
20	[Engine] [Block, Cylinder] [Plug, Threaded] {Plug, Threaded (3678873)}	A
21	[Engine] [Plumbing, Cabin Heater] [Coupling, Plain Hose] {Coupling, Plain Hose (4937137)}	A
22	[Engine] [Male Elbow Assembly] {Body (VS269AB-10-8B)}	A
23	[Engine] [Male Elbow Assembly] {Sleeve (60AB-10)}	A
24	[Engine] [Male Elbow Assembly] {Nut (61AB-10)}	A
25	[Engine] [Block, Cylinder] {16.052mm x 10mm Hwl/Dwl Pin L/C Dec Plain (3902343)}	A
26	[Engine] [Breather Crankcase] [Plain Hose Coupling] {Coupling, Plain Hose (C-4932701)}	A

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ID	Path to Sub-Parts Containing Substances	Substance ID
27	[Engine] [Plumbing, Turbocharger Oil] [Connector, Male] {Connector, Male (4940183)}	A
28	[Engine] [Plumbing, Cpr Coolant] [CONNECTOR, QCK DISCONNECT] {Adaptor NG12-M16x1,5 (555846065800)}	A
29	[Engine] [BLOCK, CYLINDE] {BEARING MAIN (4946030)}	A
30	[Engine] [BLOCK, CYLINDE] {BEARING, CRANKSHAFT THRUST (4946031)}	A
31	[Engine] [BLOCK, CYLINDE] {BEARING MAIN (4996250)}	A
32	[Engine] [THERMOSTAT] [THERMOSTAT] {Jiggle valve (CUC-031)}	A
33	[Engine] [THERMOSTAT] [THERMOSTAT] {Stem (CUC-013)}	A
34	[Engine] [Oil Pan] [Oil Pan] {M22X1.5-6g Square Socket Drain Plug (3282266)}	A
35	[Engine] [Motor, Starting] [Motor 39MT 24V] [IMS Outline] [IMS ASM] {SCREW (10541642)}	B
36	[Engine] [Motor, Starting] [Motor 39MT 24V] [IMS Outline] [IMS ASM] {STOP (10541643)}	B
37	[Engine] [HOUSING, REAR GEAR] {Screw, Hex Flange Head Cap (3901445)}	C
38	[Engine] [HOUSING, FLYWHEEL] {Screw, Hex Flange Head Cap (3089316)}	C
39	[Engine] [COVER, FRONT GEAR] {Screw, Hex Flange Head Cap (3901445)}	C
40	[Engine] [COOLER, ENGINE OIL] {Screw, Hex Flange Head Cap (3901445)}	C
41	[Engine] [MOUNTING, LIFTING BRACKET] {Screw, Hex Flange Head Cap (3903990)}	C
42	[Engine] [BLOCK, CYLINDER] {16.052mm x 10mm Hwl/Dwl Pin L/C Dec Plain (3902343)}	C
43	[Engine] [Recirculation, Exhaust] [12CP56-2 (APT) (0611)] {CSE>Glass (sealing & rods) (27501-88MC)}	D
44	[Engine] [Filter, Fuel] [Fuel Filter] [SEAHAWK FUEL FILTER (FH21130ELRX)] [SEAHAWK FUEL FILTER MODULE] [MY10 HOUSING ASSEMBLY] [MY2013 Housing Assy] [Diesel Fuel Heater / Pocketheizer] {PTC heating element/Heizelement (6039744.01)}	E
45	[Engine] [Module, Engine Control] [ECU CM2350B07R2 CUM] [module assy FMR CM2350B07R1] [pan head screw 6-32 x 17.44] {6-32 X .686 TXP PH W/ AUTOSERT FEATURE T/T (A0344185M06)}	F
46	[Engine] [Recirculation, Exhaust] [5024-0717 TempSen(0310)] {Thermistor (Shibaura: U1-312-S7) (77064-1)}	G
47	[Engine] [Recirculation, Exhaust] [5024-0717 TempSen(0310)] [Connector Framatone Bkey W/2] {Resistor (4004698500D)}	G
48	[Engine] [Module, Engine Control] [pressure temp sensor TMAP C15] [CAP,100nf,50V,+/-10%,X7R,0805] {Ag/PbO Termination (A2C00060059)}	G

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ID	Path to Sub-Parts Containing Substances	Substance ID
49	[Engine] [Module, Engine Control] [pressure temp sensor TMAP C56] [CAP,100nf,50V,+/-10%,X7R,0805] {Ag/PbO Termination (A2C00060059)}	G
50	[Engine] [Plumbing, Injector] [Common Rail / Verteilerrohr] [HIGH PRESSURE SENSOR / HOCHDRUCKSENSOR 5PP5-8] {MECHANICAL PARTS / MECHANISCHE BAUTEILE (FOORL01029)}	G
51	[Engine] [Turbocharger] [Turbocharger] [Turbocharger] [Speed Sensor] [VR sensor system] [cable harness] {end sleeve (304K-64686)}	H
52	[Engine] [Turbocharger] [Turbocharger] [Turbocharger] [Speed Sensor] [cable harness] {end sleeve (304K-64686)}	H
53	[Engine] [Plumbing, Injector] {M8 x 1.25 6g x 45mm HEX FLANGE HEAD SCREW (5303611)}	J
54	[Engine] [Harness 638000902] [JEF-708SL-#12GXL-C194-80W(O183.8) MINI IN-LINE] {Holder (251-80W-232)}	O
55	[Engine] [TUBE FUEL SUPPLY] [16x12x9mm TUBE] {16x12x9mm Fuel tube (NT050)}	O
56	[Engine] [TUBE FUEL DRAIN] [12x8x6mm TUBE] {12X8X6 FUEL TUB (NT106)}	O
57	[Engine] [V-belt set] [V-belt] {(5544938)}	P
58	[Engine] [2018MY ENGINE ASSY 6.7L AUTO TRANS DIESEL] [Breather Crankcase] [Thunderbolt BC] [Diaphragm] {(4931260)}	P
59	[Engine] [Gasket] {(A053C054)}	P
60	[Engine] [Water Pump Assembly, ISL] [Water Pump Bearing] [Grease L198] {Petamo GHY 133 N (013189255-0000)}	Q
61	[Engine] [Water Pump] [BEARING R177.2G] [LUBRICATION R177.2G] {Lubricant_Grease (Petamo GHY 133 N Kinex)}	Q
62	[Engine] [PUMP,WATER] [Water Pump Bearing] [Grease] {Grease L258 (301388113-0000)}	R
63	[Engine] [38MT 12V Motor] [Drive & Shaft Asm] [Gear Support Asm] [BEARING] [Grease] [L162] {Grease (001-948-067)}	R

ID	Path to Sub-Parts Containing Substances in <u>Aftertreatment</u>	Substance ID
1	[DAF Device,Aftertreatment (SCR)] {Terminal (78542-1)}	A
2	[DAF Device,Aftertreatment (SCR)] [HYBRID CERAMIC ELECTRONICS MODULE ASSEMBLY] {Hybrid PCB (106787-4 Rev.A)}	A

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ID	Path to Sub-Parts Containing Substances	Substance ID
3	[DEVICE,AFTERTREATMENT] {MAT, SUBSTRATE MOUNTING (A050M236)}	K
4	[DEVICE,AFTERTREATMENT] {MAT,SUBSTRATE MOUNTING (GSP00422)}	K
5	[DEVICE,AFTERTREATMENT] {MAT, SUBSTRATE MOUNTING (A061H717)}	K
6	[Module,Aftertreatment Outlet] [Module,SCR Outlet_A067N424_REV] [Submodule,Catalyst_A064V075] [Mat, Substrate Mounting] {Mat,Substrate Mounting (A064G857)}	K
7	[Module,Aftertreatment Outlet] [Module,SCR Outlet_A067N424_REV] [Submodule,Catalyst_A064V075] [Mat, Substrate Mounting] {Mat,Substrate Mounting (A064G856)}	K
8	[System,Aftertreatment] [Module,DPF Catalyst_A065U844] [Body,Muffler_A060S920] [Module,DPF Catalyst_A063Z761] [Mat, Substrate Mounting] {Mat,Substrate Mounting (A064G853)}	K
9	[DEVICE,AFTERTREATMENT] [MAT,SUBSTRATE NOUNTING] {RCF (A031A665)}	K
10	[DEVICE,AFTERTREATMENT] [MAT,SUBSTRATE NOUNTING] {RCF (A035L302)}	K
11	[DEVICE, AFTERTREATMENT] {MAT,SUBSTRATE MOUNTING (A035N699)}	K
12	[DEVICE,AFTERTREATMENT] {MAT,SUBSTRATE MOUNTING (GSP00426)}	K
13	[DEVICE, AFTERTREATMENT] {MAT,SUBSTRATE MOUNTING (GSP00419)}	K
14	[DEVICE,AFTERTREATMENT] {MAT,SUBSTRATE MOUNTING>(GSP00421)}	K
15	[DEVICE,AFTERTREATMENT] {GSP00427 (GSP00427)}	K
16	[DEVICE,AFTERTREATMENT] {Insulation (A030E924)}	D
17	[DEVICE,AFTERTREATMENT] {Insulation (A030E925)}	D
18	[DEVICE, AFTERTREATMENT] {Insulation> (A034S936)}	D
19	[DEVICE, AFTERTREATMENT] {Insulation> (A034S937)}	D
20	[DEVICE,AFTERTREATMENT] {Insulation (A030E929)}	D
21	[SCR Module Assy] [water pump asm 2.8L series] [water pump bearing] [Seal] {compound (009544313-0000)}	L
22	[System, Aftertreatment] [HLSA_ISBE 4.5L_602561944] [Dosing Module DNOX22/DM/72/S] [O-ring] {(F00BH60107)}	P
23	[Aftertreatment] [Athos Chile] [Dosing Module DNOX22/DM/72/S] [ETI-5-6 DNOX Fuel Injector compact xt / Einspritzventil Kompakt xt] [O-Ring] {(A0458S295)}	P
24	[Aftertreatment] [Ford SCR module assy] [plug asm M22x1,5] [O-Ring] {(3478717)}	P
25	[Module, Doser Fluid Supply] [Cover A050S574 -M-] [Vergußmasse] {WEVO-Casting resin PU 403 FL/5 with WEVO-Hardener 300 RE (306526)}	Q

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ID	Path to Sub-Parts Containing Substances	Substance ID
26	[Dosing Unit LO UL2 24 V] [A059R052 Cover long Pins] [Vergußmasse] {WEVO-Casting resin PU 403 FL/5 with WEVO-Hardener 300 RE (306526)}	Q
27	[Module, Doser Fluid Supply] [Pumpenmembrane mit.Antrieb -1487-] [BG Motor -1395-] [Rillenkugellager] [Grease] {Lubricant_Grease (LY684)}	R
28	[FireFox SCR module assy] [water pump asm 2.8L series] [WF1 1017.06(IZT)] [Grease L198-S132120-198-P] {Grease L198 (013189255-0000)}	R

ID	Path to Sub-Parts Containing Substances in <u>Alternator</u>	Substance ID
1	[ALTERNATOR 24SI 12V 130A] [Stator Asm] [Stator Asm Varnished] [Lam & Winding Asm] [Lamination asm coated] {Laminations asm (10503589)}	A
2	[ALTERNATOR 24SI 12V 130A] [RECTIFIER ASM] [Negative Heat Sink Asm] [Pressfit Diode 50A LV (A/C; Negative)] {Remy (10514392)}	A
3	[Alternator 22SI 12V 130A] [SRE Frame & Stator ASM P] {10A4G-F Axial Diode (10A6S)}	A
4	[Alternator 22SI 12V 130A] {Stick Screw (10488604)}	A
5	[Alternator; C6P_120A 14V_TCL] [Drive end shield] {Drive End Shield (F000BL20B8)}	A
6	[Alternator; C6P_120A 14V_TCL] [Rectifier] [Heatsink Assembly] {Heat sink (F000BL2112)}	A
7	[Alternator; C6P_120A 14V_TCL] [Rectifier] {Slip Ring End Shield (F000BL20C1)}	A
8	[Alternator; C6P_120A 14V_TCL] [Rectifier] [Heatsink Assembly] [Heat sink] {Diode ZR1450 (F00M992946)}	A
9	[ALTERNATOR] [ASSY. FINAL] [D.E. BRACKET ASSY.] {D.E. BRACKET M/C. (26224868)}	A
10	[ALTERNATOR] [ASSY. FINAL] [S.R.E BRACKET ASSY.] {S.R.E BRACKET M/C (26224870)}	A
11	[ALTERNATOR] [ASSY. FINAL] [RECTIFIER ARRANGEMENT] [POSITIVE HEATSINK ASSY.] {POSITIVE HEATSINK M/C (26216954)}	A
12	[ALTERNATOR] [ASSY. FINAL] [RECTIFIER ARRANGEMENT] [NEGATIVE HEATSINK ASSY.] {NEGATIVE HEATSINK M/C (26216957)}	A
13	[ALTERNATOR 28SI 12V 200A] [SRE FRAME ASM] [Pressfit Diode 80A LV (A/C; Negative)] {Remy (10511571)}	A
14	[Alternator Asm] [Electronics Asm] [Positive Rectifier Asm] [Positive Rectifier Asm] {Pressfit Diode 50A LV (C/C; Positive); BorgWarner (10510970)}	A
15	[Alternator Asm] [De Frame Asm] [DE FRAME MACH] {DE FRAME (10544612)}	A

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ID	Path to Sub-Parts Containing Substances	Substance ID
16	[Alternator Asm] [De Frame Asm] [De Frame Asm] [SRE FRAME MACH] {SRE FRAME (10544617)}	A
17	[Alternator Asm] [De Frame Asm] {Pressfit Diode 50A LV (A/C; Negative); BorgWarner (10515291)}	A
18	[ALTERNATOR 24SI 12V 130A] [Stator Asm] [Stator Asm Varnished] [Lam & Winding Asm] [PAPER-ARAMID] {Four Ply Aramid/Polyester Laminate (M5867-006)}	M
19	[Alternator 22SI 12V 130A] [SRE FRAME & STATOR ASM P] [STATOR ASM] [LAM & WINDING ASM] [PAPER-ARAMID 1.585"] {M2444-007 PAPER-ARAMID (M2444-007)}	M
20	[ALTERNATOR 28SI 24V 110A] [STATOR ASM] [LAM & WINDING ASM] [Lamination asm coated] [Copper Wire #15.75 (M-7253)(HGP-EXTRA)] [Four Ply Aramid/Polyester Laminate] {Four Ply Aramid/Polyester Laminate (M5867-001)}	M
21	[ALTERNATOR 28SI 12V 200A] [STATOR ASM] [STATOR ASM VARNISHED] [LAM & WINDING ASM] [PAPER-ARAMID 2.000"] {Four Ply Aramid/Polyester Laminate (M5867-001)}	M
22	[Alternator 22SI 12V 130A] [SRE FRAME & STATOR ASM P] {Screw ASM (10475784)}	F
23	[Alternator] [ALTERNATOR 28SI 24V 110A] [ROTOR ASM] [ROTOR ASM] [ROTOR ASM VARNISHED] [Varnish M-5995 catal M-5981 M-5980] {(M-5995 M-5981)}	P
24	[Alternator] [Ball bearing] {Grease (H080A)}	R

ID	Path to Sub-Parts Containing Substances in <u>Injector Doser</u>	Substance ID
1	[Injector, Doser] [Drucktransmitter Typ 518NG] {Stutzing (113730)}	A
2	[Injector, Doser] [Drucktransmitter Typ 518NG] {Print SSC mit Litzen kpl. (116696)}	A
3	[Injector, Doser] [Heater_Heizpatrone_1395_] {Solder wire part HMP dim.3mm (365068.01)}	A
4	[Injector, Doser] [Heater_Heizpatrone_1395_] [PTC heating element with metallization] {PTC heating element (601658,01)}	E
5	[Injector, Doser] [Drucktransmitter Typ 518NG] {Print SSC mit Litzen kpl. (116696)}	N
6	[Injector, Doser] [DOSING MODULE DNOX22/DM25/24/7,2/6-SAE-G/S] [ETI-5-6 DNOX Fuel Injector compact xt] [O-Ring] {(A049Y466)}	P

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ID	Path to Sub-Parts Containing Substances	Substance ID
7	[Injector, Doser] [Spare part dosing unit 12V 1441] [CUMMINS A063K272b] [O-RING] {(210-338-01)}	P
8	[Dosiergeraet Urea UL2.0 LO10 24V Graphit] [Cover A057M461 long Pins] [Vergußmasse] {WEVO-Casting resin PU 403 FL/5 with WEVO-Hardener 300 RE (306526)}	Q

ID	Path to Sub-Parts Containing Substances in <u>Turbo Charger</u>	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
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

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ID	Path to Sub-Parts Containing Substances	Substance ID
21	[Turbocharger] [Tube Turbocharger Coolant Drain] [Grommate] {(83147065)}	P
22	[Turbocharger] [ID 17 TURBOCHARGER HE221W V6] [Seal O Ring] {(3538933)}	P
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)}	R
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)}	R

ID	Path to Sub-Parts Containing Substances in <u>Fuel Pump</u>	Substance ID
1	[Pump, Fuel Transfer] {connector (HK0606A-05)}	A
2	[Pump, Fuel Transfer] {Cooler Plate (EFP040001.1)}	A
3	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [end cap part] [wire] {Lead socket (HK0601A.1.1-01)}	A
4	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [end cap part] {end cap (HK0601A.1-02)}	A
5	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [carbon brush shelf parts] {Lead Pin (HK0601A.2.1-01)}	A
6	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [15PM051 Armature] [Rotor Assembly] [Commutator] {Coper Shell (103310)}	A
7	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [15PM051 Armature] [Rotor Assembly] [Commutator] {Graphite Disc (103310)}	A
8	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [end cap part] {Solid Contact Pin Size 16 (0460-202-16141)}	A
9	[Pump, Fuel Transfer] [Fuel Transfer Pump] [electrical pump] [15PM051 Armature] [Rotor Assembly] {Spacer (104043 A)}	A
10	{Support, Fuel Pump (5474593)}	A
11	[Fuel pump electric] {Seat / Check Valve (37001600)}	A
12	[Fuel pump electric] [Valve in fitting] {Insert Iseli Supplied (64045)}	A

REACH

ID	Path to Sub-Parts Containing Substances	Substance ID
13	[Pump, Gear Fuel] {VS M 18x1,5 – 17,5 lg blank (20067700)}	A
14	[Pump, Gear Fuel] {Zentrierhulse (598792)}	A
15	[Fuel Pump DU New Body] [Cummins IMV 1002950] [Cummins IMV] {Adjustment plug (381750)}	A
16	[Fuel Pump DU New Body] [Cummins IMV 1002950] [S / A Sleeve + Spool] {Sleeve (40001695_01F)}	A
17	[Fuel Pump DU New Body] [Cummins IMV 1002950] [S / A Sleeve + Spool] {Spool (40001700_02E)}	A
18	[Fuel Pump DU New Body] [Cummins IMV 1002950] {Moving Armature (40002874)}	A
19	[Fuel Pump DU New Body] [Socket Boss Plug] {Plug, Threaded (3678922)}	A
20	[Fuel Pump DU New Body] [Union Male] {Union Male (14552)}	A
21	[Fuel Pump DU New Body] {Fitting, Bleed Screw (4384015)}	A
22	[Fuel Pump DU New Body] [Body, Fuel Pump] [Body, Fuel Pump] [LK 950-060] {Hulse LKE-D-575.060 (300122422)}	A
23	[Fuel Pump DU New Body] [Body, Fuel Pump] [Body, Fuel Pump] [Plug LK 950-080] {Hulse LKE-D-575.080 (300122424)}	A
24	[Fuel Pump] [Sealing Plug - MB 850-060E] {Sleeve (5343687)}	A
25	[Fuel Pump] [Flange] {Filter (5343687)}	A
26	[Fuel Pump] {Anlaufring (5343687)}	A
27	[Fuel Pump] [Overflow Valve] {Hollow Bolt (5343687)}	A
28	[Fuel Pump] [Overflow Valve] {Valve Piston/Ventilkolben (5343687)}	A
29	[Fuel Pump] [Metering Unit/Zumesseinheir ZME] [Armature Complete/Anker komplett] {Anker (5343687)}	A
30	[Fuel Pump] [Metering Unit/Zumesseinheir ZME] {Magnetic Core/Magnetkern ZME3 (5343687)}	A
31	[Fuel Pump] [Metering Unit/Zumesseinheir ZME] {Sicherungselement (5343687)}	A
32	[Fuel Pump] [Non-return Valve] [Valve Bolt] {Ventilbolzen (5343687)}	A
33	[Pump, Fuel HP] [Sealing Plug - MB 850-060E] {Sleeve (5303745)}	A
34	[Pump, Fuel HP] [Flange] {Filter (5303745)}	A
35	[Pump, Fuel HP] {Anlaufring (5303745)}	A
36	[Pump, Fuel HP] [Overflow Valve] {Hollow Bolt (5303745)}	A
37	[Pump, Fuel HP] [Overflow Valve] {Valve Piston/Ventilkolben (5303745)}	A

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ID	Path to Sub-Parts Containing Substances	Substance ID
38	[Pump, Fuel HP] [Metering Unit/Zumesseinheir ZME] [Armature Complete/Anker komplett] {Anker (5303745)}	A
39	[Pump, Fuel HP] [Metering Unit/Zumesseinheir ZME] {Magnetic Core/Magnetkern ZME3 (5303745)}	A
40	[Pump, Fuel HP] [Metering Unit/Zumesseinheir ZME] {Sicherungselement (5303745)}	A
41	[Kit, Fuel Pump] [Assy High-Pressure Pump CP4.2 / Versammlunghochdruckpumpe CP4.2] [Metering Unit ZME4 CC-Radial MT6.4 C] [Magnet Casing] [Magnet Assembly] {Lagerbuchse/Bushing (1 928 492 396)}	A
42	[Kit, Fuel Pump] [Assy High-Pressure Pump CP4.2 / Versammlunghochdruckpumpe CP4.2] [Metering Unit ZME4 CC-Radial MT6.4 C] [Anker komplett] {Anker (1928492309)}	A
43	[Kit, Fuel Pump] [Assy High-Pressure Pump CP4.2 / Versammlunghochdruckpumpe CP4.2] [Metering Unit ZME4 CC-Radial MT6.4 C] {Magnetic Core (1928492721)}	A
44	[Kit, Fuel Pump] [Assy High-Pressure Pump CP4.2 / Versammlunghochdruckpumpe CP4.2] [Metering Unit ZME4 CC-Radial MT6.4 C] [Slot Cover] [Slot Cover altern APG 1 EW=65%] {valve piston/ventilkolben (1928492448)}	A
45	[Kit, Fuel Pump] [Assy High-Pressure Pump CP4.2 / Versammlunghochdruckpumpe CP4.2] [Metering Unit ZME4 CC-Radial MT6.4 C] {Retaining Element/Sicherungselement (1928492322)}	A
46	[Kit, Fuel Pump] [Assy High-Pressure Pump CP4.2 / Versammlunghochdruckpumpe CP4.2] [Gear pump/zahnradpumpe] {Ni coating ZP housing 265 (2445110265)}	A
47	{Gasket Fuel Pump (5491739)}	L
48	[HEAD,FUEL PUMP] [SPRING, COMPRESSION] {DYKEM Opaque Stain - Dark Green (81706)}	Q

REACH

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
---	No Information Available