

1SDL000282R1448 – edition 2

Subject: REACh Regulation

Bergamo, December 10th, 2025

With reference to the Regulation (EC) No 1907/2006 issued by the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) entered in force on 1st June 2007, please be informed that:

- ABB continuously assesses its products for content of Substances of Very High Concern (hereinafter SVHC), included in the “Candidate List” by the European Chemicals Agency (ECHA) as per Annex XIV of the REACH Regulation
- under normal and reasonably foreseeable usage conditions, products manufactured by ABB do not intentionally release any substance or preparation
- a substance on its own, in a preparation or in an article, for which Annex XVII contains a restriction is not manufactured, placed on the market or used inside ABB products unless it complies with the conditions of that restriction

According to the current best knowledge and according to the information provided by suppliers, ABB states that manufactured Moulded Case, Air and Solid State Circuit Breakers and related accessories comply with the materials and the restrictions in Regulation (EC) No 1907/2006.

All information concerning SVHC listed in the “Candidate List” updated on 21st January 2025 present in excess of 0.1% w/w is illustrated in ABB document 1SDL000572R0001.

Mario Bortoli

ELSP R&D Local Duties Owner



Federica Meglio

HUB Europe Quality Manager

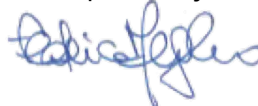


ABB SpA
Sede Legale / Registered Office
Via Vittor Pisani, 16
20124 Milano - Italy
E-mail: IT-info@abb.com
www.abb.it

Direzione e Uffici Amministrativi
Headquarters and
Accounting Offices
20099 Sesto San Giovanni (MI) - Italy
Via Luciano Lama, 33
Tel. +39 02 2414.1
PEC abbspa@legalmail.it

Capitale Sociale / Share Capital:
€ 110.000.000 i.v. / fully paid up
Partita IVA / VAT: IT 11988960156
Codice Fiscale / Fiscal Code:
00736410150
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SVHC present in excess of 0.1% MCCBs, ACBs and SSCBs

MOULDED CASE CIRCUIT BREAKERS (MCCBs)

Lead (CAS # 7439-92-1)

- Some electronic components mounted inside trip units of Tmax, Tmax XT and Formula circuit breakers
- Some electronic components mounted inside shunt opening release for Tmax XT XT5-XT6 circuit breakers
- Some electronic components mounted inside undervoltage release for Tmax XT XT5-XT6 circuit breakers
- Some electronic components mounted inside shunt opening release for Tmax XT XT7 circuit breakers
- Some electronic components mounted inside shunt closing release for Tmax XT XT7 circuit breakers
- Some electronic components mounted inside undervoltage release for Tmax XT XT7 circuit breakers
- Some electronic components mounted inside undervoltage release for Tmax T7 circuit breakers
- Some electronic components mounted inside electronic motor operators for Tmax T4-T5 circuit breakers
- Some electronic components mounted inside under voltage device for Tmax and Tmax XT circuit breakers
- Some electronic components mounted inside residual current devices for Tmax and Tmax XT circuit breakers
- Some electronic components mounted inside Ekip COM module for Tmax XT circuit breakers
- Some electronic components mounted inside ATS unit
- Some electronic components mounted inside Ekip T&P unit
- Some electronic components mounted inside Ekip TT unit
- An insert mounted inside Tmax T1...T5, Tmax XT XT1...XT4-XT7 and Emax 2 E1.2-E4.2 circuit breakers
- A brass insert mounted inside Tmax T4-T5-T7, Tmax XT XT4-XT5-XT7 and Emax 2 circuit breakers
- An insert mounted inside Tmax T4-T5 circuit breakers
- A pin mounted inside Tmax T5 circuit breakers and in Tmax XT XT1-XT2-XT5 circuit breakers
- A pin mounted inside operating mechanism for Formula A2 circuit breakers
- A terminal board for moulded case circuit breakers
- A terminal board for shunt opening releases and for undervoltage releases for Tmax T4-T5 circuit breakers

1,2 – Dimethoxyethane; ethylene glycon dimethyl ether (EGDME) (CAS # 110-71-4)

- Coin type Lithium Manganese battery mounted inside trip units of Tmax XT circuit breakers

1,3 – Propanesultone (CAS # 1120-71-4)

- Coin type Lithium Manganese battery mounted inside trip units of Tmax XT circuit breakers

Decamethylcyclopentasiloxane [D5], Dodecamethylcyclohexasiloxane [D6], Octamethylcyclotetrasiloxane [D4] (CAS # 540-97-6, CAS # 541-02-6, CAS # 556-67-2)

- A silicone sheath mounted inside Tmax XT XT5 circuit breakers
- Components inside sensor assemblies for Tmax XT XT2-XT4 circuit breakers

1,3,5-Triazine-2,4,6-triamine (CAS # 108-78-1)

- Microswitch mounted inside auxiliary contacts for Tmax XT and Formula circuit breakers

Triphenyl phosphate (TPP) (CAS # 115-86-6)

- Thermomagnetic trip unit frontal for Tmax XT XT4 circuit breakers
- 2 levers mounted on Tmax XT XT4 circuit breakers

Author	Davide Pirola	Document Title	SVHC present in excess of 0.1% MCCBs-ACBs-SSCBs	Version 05
Role	ELSP Product Compliance Material Manager	Document Number	1SDL000572R0001	Number of Pages
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MOULDED CASE CIRCUIT BREAKERS (MCCBs)

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (CAS # 119-47-1)

- Some components mounted inside trip units of Tmax T4-T5-T6 and Tmax XT XT5 circuit breakers

Lead titanium zirconium oxide (CAS # 12626-81-2)

- Some electronic components mounted inside trip units of Tmax and Tmax XT circuit breakers

Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate (CAS # 29420-49-3)

- Some electronic components mounted inside ATS unit

Tetrabromobisphenol A (CAS # 79-94-7)

- Some electronic components mounted inside trip units of Tmax and Tmax XT circuit breakers
- Some electronic components mounted inside ATS unit

Polytetrafluoroethylene (PTFE) (CAS # 9002-84-0)

- Some electronic components mounted inside trip units of Tmax and Tmax XT circuit breakers

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AIR CIRCUIT BREAKERS (ACBs)

Lead (CAS # 7439-92-1)

- Some electronic components mounted inside trip units of Emax 2, Emax 3 and Formula Air circuit breakers
- Some electronic components mounted inside shunt opening release for Emax 2 and Emax 3 circuit breakers
- Some electronic components mounted inside shunt closing release for Emax 2 and Emax 3 circuit breakers
- Some electronic components mounted inside undervoltage release for Emax 2 and Emax 3 circuit breakers
- Some electronic components mounted inside residual current toroid for Emax 2 E1.2 and Emax 3 E1.3 CBs
- Some electronic components mounted inside Ekip T&P unit
- Some electronic components mounted inside Ekip TT unit
- A pin mounted inside Emax 2 E1.2-E4.2 circuit breakers and Emax 3 E1.3-E4.3 circuit breakers
- A terminal board for air circuit breakers

1,2 – Dimethoxyethane; ethylene glycon dimethyl ether (EGDME) (CAS # 110-71-4)

- Coin type Lithium Manganese battery mounted inside trip units of Emax 2 and Emax 3 circuit breakers

1,3 – Propanesultone (CAS # 1120-71-4)

- Coin type Lithium Manganese battery mounted inside trip units of Tmax XT circuit breakers

Ethylene thiourea (CAS 96-45-7)

- Rubber protection ring mounted inside Emax 2 E2.2 and Emax 3 E2.3 circuit breakers

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SOLID STATE CIRCUIT BREAKERS (SSCBs)

Lead (CAS # 7439-92-1)

- Some electronic components mounted inside trip units of Infinitus circuit breakers
- Some electronic components mounted inside shunt opening release for Infinitus circuit breakers
- Some electronic components mounted inside shunt closing release for Infinitus circuit breakers
- Some electronic components mounted inside undervoltage release for Infinitus circuit breakers
- A terminal board for Infinitus circuit breakers
- A pin mounted inside Infinitus circuit breakers

1,2 – Dimethoxyethane; ethylene glycon dimethyl ether (EGDME) (CAS # 110-71-4)

- Coin type Lithium Manganese battery mounted inside trip units of Infinitus circuit breakers

1,3 – Propanesultone (CAS # 1120-71-4)

- Coin type Lithium Manganese battery mounted inside trip units of Emax 2 and Emax 3 circuit breakers

Ethylene thiourea (CAS 96-45-7)

- Rubber protection ring mounted inside Infinitus circuit breakers

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