

EU pesticide approvals, renewals, and extensions in 2023

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Extensions, approvals, and renewals of pesticides for use in the EU introduced in 2023

Commission Implementing Regulations (EU) [2023/114](#), [2023/199](#), [2023/223](#), [2023/200](#), [2023/689](#), [2023/918](#), [2023/998](#), [2023/999](#), [2023/1000](#), [2023/1001](#), [2023/1002](#), [2023/1003](#), [2023/1004](#), [2023/1005](#), [2023/1446](#), [2023/1447](#), [2023/1488](#), [2023/1755](#), [2023/1756](#), [2023/1757](#), [2023/2589](#), [2023/2591](#), [2023/2592](#)

Update

In 2023, the EU extended its approval for use of the active substances set out in Table 1. Most recently, approvals were extended for 1-naphthylacetamide, 1-naphthylacetic acid, 2-phenylphenol (including its salts, such as sodium salt), 8-hydroxyquinoline, amidosulfuron, bifenoxy, dicamba, difenoconazole, diflufenican, dimethachlor, esfenvalerate, etofenprox, fenoxaprop-P, fenpropidin, fenpyrazamine, fluazifop P, lenacil, napropamide, nicosulfuron, paraffin oils and paraffin oil [in separate approvals], penconazole, picloram, prohexadione, spiroxamine, sulphur, tetraconazole, and tri-allate.

What is changing?

In 2023, the EU extended its approval of the substances set out in Table 1.

The EU also:

- approved *Trichoderma atroviride* AT10 as a low-risk active substance (expiry 20 Feb 2038)
- renewed *Pseudomonas chlororaphis* strain MA 342 only as fungicide for seed dressing in closed seed dressing machinery (expiry 28 Feb 2038)
- renewed the approvals of *Bacillus amyloliquefaciens* strain QST713; *Bacillus thuringiensis* subsp. *aizawai* strains ABTS-1857 & GC-91; *Bacillus thuringiensis* subsp. *israeliensis* (serotype H-14) strain AM65-52; *Bacillus thuringiensis* subsp. *kurstaki* strains ABTS 351, SA11, SA12 & EG2348; aluminium ammonium sulphate, and ethephon
- renewed the approval of quartz sand, *Cydia pomonella* granulovirus (CpGV), and fat distillation residues as low-risk active substances
- decided not to approve Citrus lemon essential oil as a basic substance.

Why?

Non-approval of lemon essential oil

[EFSA \(2021\)](#) concluded that the main hazards associated with lemon essential oil are its toxicity by inhalation and skin irritation. Lemon essential oil also presents significant risks to the environment: D-lemonene, its main component, is very toxic to aquatic organisms, with long-lasting effects. The European Commission concluded that this substance cannot be approved.

Timeline

A comprehensive list of active substances, their legal status, and expiry dates can be found on the Commission's [Active substances, safeners and synergists](#) database.

Recommended Actions

Suppliers to the EU market should monitor developments in EU approvals in order to help develop longer-term strategies on agricultural practices that are in conformity with EU rules.

Background

Approvals

A plant protection product or pesticide contains one or several active substances. Active substances must meet the established approval criteria (Regulation (EC) No [1107/2009](#), Art. 4), which include no harmful effects on human health or the environment.

Depending on their characteristics, some active substances can be approved as low risk substances that fulfil certain criteria (Regulation (EC) [1107/2009](#), Annex II(5)). Low risk substances are approved for 15 years instead of the standard 10 years, and enjoy more favourable data protection (13 years). Authorisation procedures are generally also shorter.

Approval renewals

The Commission has established a series of work programmes to manage the renewal process. The fifth [work programme](#) covers substances with approval expiring between 1 January 2022 and 31 December 2024. Each substance is allocated to a [Member State](#) for evaluation.

If no application is received for extension of approval, the initial expiry date will remain.

Extension of approvals

If an application for renewal cannot be fully evaluated before the expiry date, the approval can be extended to allow the evaluation to be completed.

Resources

Online resources from the European Commission:

- [Renewal of approval](#)
- [Approval of active substances](#)

EFSA (2021) [Outcome of the consultation with Member States and EFSA on the basic substance application for approval of lemon essential oil to be used in plant protection as an acaricide, insecticide and fungicide in fruit trees \(citrus\)](#). EFSA Supporting Publication, EN-6873.

Sources

Regulation (EU) [2023/114](#) on the extension of the approval periods of the active substances benzovindiflupyr, buprofezin, cyflufenamid, fluazinam, flutolanil, lambda-cyhalothrin, mecoprop-P, mepiquat, metiram, metsulfuron-methyl, phosphane and pyraclostrobin

Regulation (EU) [2023/199](#) approving the low-risk active substance *Trichoderma atroviride* AT10

Regulation (EU) [2023/223](#) renewing the approval of the active substance *Pseudomonas chlororaphis* strain MA 342

Regulation (EU) [2023/200](#) on the non-approval of lemon essential oil (*Citrus limon* essential oil) as a basic substance

Regulation (EU) [2023/689](#) as regards the extension of the approval periods of the active substances *Bacillus subtilis* (Cohn 1872) strain QST 713, *Bacillus thuringiensis* subsp. *aizawai* strains ABTS-1857 and GC-91, *Bacillus thuringiensis* subsp. *israeliensis* (serotype H-14) strain AM65-52, *Bacillus thuringiensis* subsp. *kurstaki* strains ABTS 351, PB 54, SA 11, SA12 and EG 2348, *Beauveria bassiana* strains ATCC 74040 and GHA, clodinafop, *Cydia pomonella* granulovirus (CpGV), cyprodinil, dichlorprop-P, fenpyroximate, fosetyl, malathion, mepanipyrim, metconazole, metrafenone, pirimicarb, pyridaben, pyrimethanil, rimsulfuron, spinosad, *Trichoderma asperellum* (formerly *T. harzianum*) strains ICC012, T25 and TV1, *Trichoderma atroviride* (formerly *T. harzianum*) strain T11, *Trichoderma gamsii* (formerly *T. viride*) strain ICC080, *Trichoderma harzianum* strains T-22 and ITEM 908, triclopyr, trinexapac, triticonazole and ziram

Regulation (EU) [2023/918](#) as regards the extension of the approval periods of the active substances aclonifen, ametoctradin, beflubutamid, benthiavalicarb, boscalid, captan, clethodim, cycloxydim, cyflumetofen, dazomet, diclofop, dimethomorph, ethephon, fenazaquin, fluopicolide, fluoxastrobin, flurochloridone, folpet, formetanate, *Helicoverpa armigera* nucleopolyhedrovirus, hymexazol, indolylbutyric acid, mandipropamid, metalaxyl, metaldehyde, metam, metazachlor, metribuzin, milbemectin, paclobutrazol, penoxsulam, phenmedipham, pirimiphos-methyl, propamocarb, proquinazid, prothioconazole, S-metolachlor, *Spodoptera littoralis* nucleopolyhedrovirus, *Trichoderma asperellum* strain T34 and *Trichoderma atroviride* strain I-1237

Regulation (EU) [2023/998](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *kurstaki* ABTS-351

Regulation (EU) [2023/999](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *israelensis* strain AM65-52

Regulation (EU) [2023/1000](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *aizawai* GC-91

Regulation (EU) [2023/1001](#) renewing the approval of the active substance *Bacillus amyloliquefaciens* strain QST 713

Regulation (EU) [2023/1002](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *aizawai* strain ABTS-1857

Regulation (EU) [2023/1003](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *kurstaki* EG2348

Regulation (EU) [2023/1004](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *kurstaki* SA-11

Regulation (EU) [2023/1005](#) renewing the approval of the active substance *Bacillus thuringiensis* subsp. *kurstaki* SA-12

Regulation (EU) [2023/1446](#) as regards the extension of the approval periods of the active substances 2,5-dichlorobenzoic acid methylester, acetic acid, aluminium ammonium sulphate, aluminium phosphide, aluminium silicate, calcium carbide, cymoxanil, dodemorph, ethylene, extract from tea tree, fat distillation residues, fatty acids C7-C20, flonicamid (IKI-220), gibberellic acid, gibberellins, halosulfuron-methyl, hydrolysed proteins, iron sulphate, magnesium phosphide, maltodextrin, metamitron, plant oils/clove oil, plant oils/rape seed oil, plant oils/spear mint oil, pyrethrins, sulcotrione, tebuconazole and urea

Regulation (EU) [2023/1488](#) renewing the approval of the low-risk active substance quartz sand

Regulation (EU) [2023/1755](#) renewing the approval of the low-risk active substance fat distillation residues

Regulation (EU) [2023/1756](#) renewing the approval of the low-risk active substance *Cydia pomonella* granulovirus (CpGV)

Regulation (EU) [2023/1757](#) as regards the extension of the approval periods of the active substances bensulfuron, chlormequat, chlorotoluron, clomazone, daminozide, deltamethrin, eugenol, fludioxonil, flufenacet, flumetralin, fosthiazate, geraniol, MCPA, MCPB, propaquizafop, prosulfocarb, quizalofop-P-ethyl, quizalofop-P-tefuryl, sodium 5-nitroguaiacolate, sodium o-nitrophenolate, sodium p-nitrophenolate, sulfuryl fluoride, tebufenpyrad, thymol, and tritosulfuron

Regulation (EU) [2023/2589](#) renewing the approval of the active substance aluminium ammonium sulfate

Regulation (EU) [2023/2591](#) renewing the approval of the active substance ethephon

Regulation (EU) [2023/2592](#) as regards the extension of the approval periods of the active substances 1-naphthylacetamide, 1-naphthylacetic acid, 2-phenylphenol (incl. its salts such as sodium salt), 8-hydroxyquinoline, amidosulfuron, bifenox, dicamba, difenoconazole, diflufenican, dimethachlor, esfenvalerate, etofenprox, fenoxaprop-P, fenpropidin, fenpyrazamine, fluazifop P, lenacil, napropamide, nicosulfuron, paraffin oils, paraffin oil, penconazole, picloram, prohexadione, spiroxamine, sulphur, tetraconazole and tri-allate

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Table & Figures

| Table 1 Extensions of approval | | | |
|---|-------------|---|-------------|
| Active substance | Expiry date | Active substance | Expiry date |
| Regulation (EU) 2023/114 | | Regulation (EU) 2023/689 [<i>continued</i>] | |
| Benzovindiflupyr | 02 Mar 2024 | Fenpyroximate | 15 Jun 2026 |
| Buprofezin | 31 Jan 2024 | Fosetyl | 15 Mar 2025 |
| Cyflufenamid | 31 Mar 2024 | Malathion | 31 Jul 2026 |
| Fluazinam | 29 Feb 2024 | Mepanipyrim | 15 Mar 2025 |
| Flutolanil | 29 Feb 2024 | Metconazole | 15 Mar 2025 |
| Lambda-cyhalothrin | 31 Mar 2024 | Metrafenone | 15 Dec 2024 |
| Mecoprop-P | 31 Jan 2024 | Pirimicarb | 15 Mar 2025 |
| Mepiquat | 29 Feb 2024 | Pyridaben | 31 Jul 2026 |
| Metiram | 31 Jan 2024 | Pyrimethanil | 15 Mar 2025 |
| Metsulfuron-methyl | 31 Mar 2024 | Rimsulfuron | 15 Aug 2025 |
| Phosphane | 31 Mar 2024 | Spinosad | 15 Mar 2025 |
| Pyraclostrobin | 31 Jan 2024 | <i>Trichoderma asperellum</i> (formerly <i>T. harzianum</i>) strains ICC012, T25 & TV1 | 15 Apr 2025 |
| Regulation (EU) 2023/689 | | <i>Trichoderma atroviride</i> (formerly <i>T. harzianum</i>) strain T11 | 15 Apr 2025 |
| <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> strain PB 54 | 15 Aug 2024 | <i>Trichoderma gamsii</i> (formerly <i>T. viride</i>) strain ICC080 | 15 Apr 2025 |
| <i>Beauveria bassiana</i> strains ATCC 74040 & GHA | 30 Sep 2025 | <i>Trichoderma harzianum</i> strains T-22 & ITEM 908 | 15 Apr 2025 |
| Clodinafop | 15 Dec 2024 | Triclopyr | 15 Dec 2024 |
| <i>Cydia pomonella</i> granulovirus (CPGV) | 15 Aug 2024 | Trinexapac | 15 Dec 2024 |
| Cyprodinil | 15 Mar 2025 | Triticonazole | 15 Mar 2025 |
| Dichlorprop-P | 15 Mar 2025 | Ziram | 15 Mar 2025 |
| <i>continued...</i> | | | |
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| Table 1 Extensions of approval [<i>continued</i>] | | | |
|---|---------------|--|---------------|
| Active substance | Expiry date | Active substance | Expiry date |
| Regulation (EU) 2023/918 | | Regulation (EU) 2023/918 | |
| Aclonifen | 31 Oct 2026 | Hymexazol | 31 Aug 2026 |
| Ametoctradin | 31 Dec 2025 | Indolylbutyric acid | 15 March 2026 |
| Beflubutamid | 31 Oct 2026 | Mandipropamid | 31 Dec 2025 |
| Benthiavalicarb | 15 Nov 2024 | Metalaxyl | 30 Sept 2026 |
| Boscalid | 15 Apr 2026 | Metaldehyde | 31 Aug 2026 |
| Captan | 15 Nov 2024 | Metam | 30 Nov 2025 |
| Clethodim | 31 Aug 2026 | Metazachlor | 31 Oct 2026 |
| Cycloxydim | 31 Aug 2026 | Metribuzin | 15 Feb 2025 |
| Cyflumetofen | 31 Oct 2025 | Milbemectin | 15 Feb 2025 |
| Dazomet | 31 Aug 2026 | Pacllobutrazol | 31 Aug 2026 |
| Diclofop | 31 Aug 2026 | Penoxsulam | 15 May 2026 |
| Dimethomorph | 15 Feb 2025 | Phenmedipham | 15 Feb 2025 |
| Ethephon | 15 Nov 2024 | Pirimiphos-methyl | 15 June 2025 |
| Fenazaquin | 31 Aug 2026 | Propamocarb | 15 June 2025 |
| Fluopicolide | 31 Aug 2026 | Proquinazid | 15 May 2026 |
| Fluoxastrobin | 15 June 2025 | Prothioconazole | 15 Aug 2025 |
| Flurochloridone | 15 March 2026 | S-metolachlor | 15 Nov 2024 |
| Folpet | 15 Feb 2025 | <i>Spodoptera littoralis</i> nucleopolyhedrovirus | 31 Oct 2025 |
| Formetanate | 15 Feb 2025 | <i>Trichoderma asperellum</i> strain T34 | 31 Oct 2025 |
| <i>Helicoverpa armigera</i> nucleopolyhedrovirus | 31 Oct 2025 | <i>Trichoderma atroviride</i> strain I- 1237 | 31 Oct 2025 |
| <i>continued...</i> | | | |
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| Table 1 Extensions of approval [<i>continued</i>] | | | |
|--|-------------|---------------------------|-------------|
| Active substance | Expiry date | Active substance | Expiry date |
| Regulation (EU) 2023/1446 | | Regulation (EU) 2023/1757 | |
| 2,5-dichlorobenzoic acid methylester | 30 Nov 2026 | Bensulfuron | 15 Aug 2026 |
| Acetic acid | 30 Nov 2026 | Chlormequat | 28 Feb 2027 |
| Aluminium ammonium sulphate | 15 Dec 2024 | Chlorotoluron | 15 Aug 2026 |
| Aluminium phosphide | 30 Nov 2026 | Clomazone | 15 Jun 2025 |
| Aluminium silicate | 15 Dec 2024 | Daminozide | 15 Sep 2025 |
| Calcium carbide | 30 Nov 2026 | Deltamethrin | 15 Aug 2026 |
| Cymoxanil | 15 Aug 2026 | Eugenol | 30 Apr 2026 |
| Dodemorphan | 30 Nov 2026 | Fludioxonil | 15 Jun 2025 |
| Ethylene | 30 Nov 2026 | Flufenacet | 15 Jun 2025 |
| Extract from tea tree | 31 Jan 2026 | Flumetraline | 11 May 2026 |
| Fat distillation residues | 15 Dec 2024 | Fosthiazate | 31 Jan 2027 |
| Fatty acids C7–C20 | 15 Dec 2024 | Geraniol | 30 Apr 2026 |
| Flonicamid (IKI-220) | 30 Nov 2026 | MCPA | 15 Aug 2026 |
| Gibberellic acid | 15 Jul 2025 | MCPB | 15 Aug 2026 |
| Gibberellins | 15 Jul 2025 | Propaquizafop | 28 Feb 2027 |
| Halosulfuron-methyl | 31 Mar 2025 | Prosulfocarb | 28 Feb 2027 |
| Hydrolysed proteins | 15 Apr 2025 | Quizalofop-P-ethyl | 28 Feb 2027 |
| Iron sulphate | 30 Nov 2026 | Quizalofop-P-tefuryl | 28 Feb 2027 |
| Magnesium phosphide | 30 Nov 2026 | Sodium 5-nitroguaiacolate | 31 Jan 2027 |
| Maltodextrin | 28 Feb 2026 | Sodium o-nitrophenolate | 31 Jan 2027 |
| Metamitron | 30 Nov 2026 | Sodium p-nitrophenolate | 31 Jan 2027 |
| Plant oils/ clove oil | 31 Jan 2026 | Sulfuryl fluoride | 31 Jan 2027 |
| Plant oils/ rape seed oil | 15 Dec 2024 | Tebufenpyrad | 31 Jan 2027 |
| Plant oils/ spearmint oil | 31 Jan 2026 | Thymol | 30 Apr 2026 |
| Pyrethrins | 15 Jun 2026 | Tritosulfuron | 15 Jul 2025 |
| Sulcotrione | 30 Nov 2026 | | |
| Tebuconazole | 15 Aug 2026 | | |
| Urea | 30 Nov 2026 | | |
| <i>continued...</i> | | | |

| Table 1 Extensions of approval [<i>continued</i>] | | | |
|---|-------------|------------------|-------------|
| Active substance | Expiry date | Active substance | Expiry date |
| Regulation (EU) 2023/2592 | | | |
| 1-naphthylacetic acid | 31 May 2026 | Fluazifop P | 31 May 2026 |
| 2-phenylphenol | 15 Nov 2027 | Lenacil | 15 Aug 2025 |
| 8-hydroxyquinoline | 31 Dec 2024 | Napropamide | 31 Mar 2027 |
| Amidosulfuron | 15 Dec 2025 | Nicosulfuron | 31 Mar 2027 |
| Bifenox | 31 Mar 2027 | Paraffin oils | 31 Mar 2027 |
| Dicamba | 31 Mar 2027 | Paraffin oil | 15 Aug 2025 |
| Difenoconazole | 15 Mar 2026 | Penconazole | 15 Oct 2026 |
| Diflufenican | 15 Jan 2026 | Picloram | 15 Feb 2028 |
| Dimethachlor | 15 Oct 2026 | Prohexadione | 31 May 2026 |
| Esfenvalerate | 31 May 2026 | Spiroxamine | 31 May 2026 |
| Etofenprox | 31 Mar 2027 | Sulphur | 15 Apr 2025 |
| Fenoxaprop-P | 15 Aug 2025 | Tetraconazole | 31 Mar 2027 |
| Fenpropidin | 15 May 2027 | Tri-allate | 31 Mar 2027 |
| Fenpyrazamine | 31 May 2026 | | |
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Sources: Regulations (EU) [2023/114](#), [2023/689](#), [2023/918](#), [2023/1446](#), [2023/1757](#), [2023/2592](#)

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