

2013

**Agrochemicals accepted by the
British Beer and Pub Association
and
Brewing Research International
for use on **Cereals****

Agrochemicals accepted by the BBPA (British Beer and Pub Association) and BRI (Brewing Research International) for use on cereals for malting and brewing

The purpose of the BBPA/BRI List

The BRI and BBPA aim to test agrochemicals which, because of their chemical nature or timing of application to barley could potentially either affect the malting, brewing or fermentation processes, or cause undesirable off-flavours in the finished beer. In the EU, Council Directive 93/71/EEC (Annex III) requires the effects of pesticides on transformation processes to be taken into account and requires an evaluation of the possible adverse effects on transformation processes, such as brewing and malting, or on the quality of their products.

For a chemical to be included on the list of accepted agrochemicals, BRI will carry out an initial assessment of factors, including chemical nature, mode of action, time of application and available test data. Following this initial assessment, BRI will conduct any additional malting or brewing trials necessary to come to a decision. These further trials do not replace or duplicate the toxicological or efficacy testing required by the Chemicals Regulation Directorate (CRD) before the chemical can be registered, but are designed to test the suitability of treated crops for processing specifically within the malting and brewing industry.

This document is issued in the UK by the BBPA as a Technical Circular and is a comprehensive list of active ingredients **registered in the UK** for barley. Users outside the UK will need to check whether listed chemicals are approved for use in their own countries. **Products are withdrawn from the list if they are no longer registered in the UK by the CRD, even though they do not cause problems in terms of processing.**

Listed agrochemicals are classed as ACCEPTED for use on malting barley for brewing, NOT ACCEPTED or NOT TESTED OR ACCEPTED. Agrochemicals accepted for barley are also accepted for wheat for malting and brewing, provided that they are registered for that use by the CRD. Note that a few pesticides registered for use on wheat are not registered for barley; these have not been evaluated for potential effects in malting or brewing and are therefore not included in this list. The list is **not** exhaustive with regard to Product Names; products which are not listed are accepted if they contain the same active ingredient, and are used at the same growth period and dose as products which are listed. Full product listings are available on the CRD website: <https://secure.pesticides.gov.uk/pestreg/ProdSearch.asp>

Maximum Residue Levels (MRLs). These are as given in EU legislation. A MRL is the maximum concentration of a pesticide residue (expressed as mg/kg), permitted in or on food commodities and animal feeds. MRLs are primarily a check that Good Agricultural Practice is being followed and are intended to assist international trade in produce treated with pesticides. MRLs are **not** safety limits. MRLs are established using toxicological and dietary exposure evidence concerning the safety to humans of the resulting residues and this means that MRLs represent residue levels which are toxicologically acceptable. They are generally well below safety limits, thus exposure to residues in excess of an MRL does not automatically imply a hazard to health.

For more details concerning the chemicals listed contact:

Denise Baxter	d.baxter@campdenbri.co.uk	01737 824231
Ian Slaiding	i.slaiding@campdenbri.co.uk	01737 824206
Ian Ormrod	i.ormrod@campdenbri.co.uk	01737 824228

Agrochemicals accepted by the BBPA & BRI for use on cereals

The list has been extended to the extent that chemicals accepted for barley are also accepted for use on wheat or other cereals for malting and or brewing. However, this should not be taken to imply that there is a current registration for that chemical on that cereal. The MRLs given are for barley.

The EU expiry date is the date on which approval for the chemical, on any crop, will be withdrawn unless an extension is granted. Approval in the UK for named products containing the chemical is granted by the CRD. The latest expiry date is the latest date on which UK approval for any product for use on barley will expire. Note that some products, including the listed product, may have earlier expiry dates. Some products may be co-formulations with other pesticides. Full details of approved products, together with amendment and withdrawal notices issued since this list was last modified, are available at:

<https://secure.pesticides.gov.uk/pestreg/ProdSearch.asp>

MRLs are updated from the EU MRL harmonised database, released Sept 2008:

http://ec.europa.eu/sanco_pesticides/public/index.cfm?event=commodity.selection

Changes made to the list since Feb 2012

Type	Active Ingredient	Product Name	Changes
Fungicide	Guazatine	Panoctine, Ravine	Voluntarily withdrawn. Maximum period of grace: 31/12/2012.
Herbicide	Picolinafen	AC 900001, Vixen	Status changed to Accepted
Miscellaneous (anti-transpirant)	Pinene oligomers	Desikote Max	Added to list February 2013

Only additions, withdrawals, and changes of status or limitations are noted here. Changes to expiry dates and MRLs are not included in this table.

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Insecticides for admixture with grain or in empty grain stores								
Aluminium phosphide	Detia Gas-Ex-T, Phostoxin	Accepted	Grain storage only	31/08/2019	31/12/2021		0.1	0.1
Chlorpyrifos-methyl	Reldan 22	Accepted	Grain storage only: store for 90 days before malting	30/06/2016	31/12/2021		3	-
Deltamethrin (with piperonyl butoxide)	K-OBiol formulations, Grainstore, Grain-Tect ULV	Accepted	Grain admixture and empty stores	31/10/2016	30/04/2019		2	2 (delt) 30 (pip)
Diatomaceous Earth	Demeter, SillicoSec, DiaMite	Accepted	Grain storage: subject to continued UK and EU registration				No MRL	-
Magnesium phosphide	Detia Gas-Ex-B-Forte, Degesch Plates	Accepted	Grain storage only	31/08/2019	31/12/2021		0.1	0.1
Pirimiphos-methyl	Actellic 50EC, Pan PMT	Accepted	Grain admixture	30/09/2017	31/12/2021		5	7
Pirimiphos-methyl	Actellic Smoke Generator	Accepted	Empty stores & transport only	30/09/2017	21/05/2016		5	7
Pyrethrins	Aquapy	Accepted	Grain stores only	31/08/2019	31/12/2021	Pest control product approved by HSE	3	0.3

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Insecticides and fungicides for seed treatment only (note that some field chemicals are also approved as seed treatments)								
Carboxin	Anchor	Accepted	Seed treatment only	31/05/2021	31/12/2021		0.01 *	-
Clothianidin	Deter, NipsIT INSIDE	Accepted	Seed treatment only	31/07/2016	31/01/2019		0.04	-
Fludioxonil	Austral Plus, Beret Gold	Accepted	Seed treatment only	31/10/2018	31/12/2021		0.05 *	0.05
Fluopyram	Raxil Star	Accepted	Seed treatment only	Pending EU approval	31/07/2015		0.1	-
Fluquinconazole	Jockey	Accepted	Seed treatment only	31/12/2021	31/12/2021		0.05 *	-
Flutriafol	Beret Multi	Accepted	Seed treatment only	31/05/2021	31/12/2021		0.5	-
Fuberidazole	Tripod	Accepted	Seed treatment only	28/02/2019	31/12/2021		0.2	-
Imazalil	Fungazil 50 LS	Accepted	Seed treatment only	31/12/2021	31/07/2021		0.05 *	-
Imidacloprid	Tripod Plus	Accepted	Seed treatment only	31/07/2019	31/12/2021		0.1	0.05
Ipconazole	Rancona ME, Rancona iMIX	Accepted	Seed treatment only	Pending EU approval	31/10/2014		0.01 *	-
Prochloraz	Jockey	Accepted		31/12/2021	31/12/2021		1	2
Prothioconazole	Raxil Star	Accepted	Seed treatment only	31/07/2018	31/01/2021		0.3	0.2
Silthiofam	Latitude, Meridian	Accepted	Seed treatment only	31/10/2016	31/04/2019		0.05 *	-
Tebuconazole	Raxil Star, Gizmo	Accepted	Seed treatment only	31/08/2019	31/01/2021		2	0.2
Tefluthrin	Austral Plus	Accepted	Seed treatment only	31/12/2021	31/12/2021		0.05 *	-
Thiram	Anchor	Accepted		31/07/2014	31/12/2021		0.1 * (as	1 total

Triadimenol	Tripod	Accepted	Seed treatment only	31/08/2019	31/12/2021		thiram) 0.2 (includes triadimefon)	DTC 0.2
Triticonazole	Kinto	Accepted	Seed treatment only	31/01/2017	31/12/2021		0.01 *	-

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Insecticides for pre-harvest (field) use								
Alphacypermethrin	Alert, Fastac	Accepted		28/02/2015	31/12/2021		2 ¹	0.5
Beta-cyfluthrin	Gandalf	Not tested or accepted		31/10/2016	30/04/2019		0.02 *	-
Chlorpyrifos	Dursban WG, Pyrinex 48EC	Accepted		30/06/2016	31/12/2021		0.2	-
Cypermethrin	Cyperkill 10, Permasect C	Accepted		28/02/2016	31/12/2021		2 ¹	0.5
Deltamethrin	Decis, Bandu	Accepted		31/10/2016	31/12/2021		2	2
Esfenvalerate	Sumi-alpha, SVEN	Accepted		31/12/2015	31/12/2015		RR, SS isomers, 0.2 RS, SR isomers, 0.05	2
Lambda - cyhalothrin	Clayton Sparta, Kendo	Accepted		31/12/2015	30/06/2018		0.5	-
Methiocarb	Draza Forte, Decoy Wetex	Accepted		30/09/2017	31/12/2021		0.1 *	0.05
Pirimicarb	Cleancrop Miricide, Phantom	Accepted		31/01/2017	31/12/2021		0.5	0.05
Tau-fluvalinate	Greencrop Malin, Mavrik	Accepted		31/05/2021	31/12/2021		0.5	-
Zetacypermethrin	Angri, Fury 10EW	Accepted		30/11/2019	31/12/2021		2	0.5

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Fungicides								
Acibenzolar-S-methyl	Bion	Not tested		31/2/2015	31/12/2015	Safely used over a number of years	0.05 *	-
Azoxystrobin	Amistar Pro	Accepted		31/12/2021	30/06/2024		0.5	-
Bixafen	Siltra Xpro	Accepted		Pending EU approval	20/09/2016		0.5	-
Boscalid	Deuce, Maitre	Accepted	BEFORE ear emergence only	31/07/2018	31/12/2021		3	-
Carbendazim	Contrast, Punch C	Accepted		30/11/2014	30/11/2014		2	0.5
Chlorothalonil	Apache, Bravo Xtra	Accepted		28/02/2016	31/12/2021		0.3	0.1
Cyflufenamid	Cyflamid	Accepted		31/03/2020	30/09/2022		0.1	-
Cyproconazole	Alto Xtra, Furlong	Accepted		31/05/2021	31/12/2021		0.1	-
Cyprodinil	Kayak, Unix	Accepted		30/04/2017	30/04/2019		3	3
Epoxiconazole	Cloister, Opus, Epic	Accepted	BEFORE ear emergence only	30/04/2019	31/12/2021		1.5	-
Famoxadone	Charisma, Medley	Accepted		31/12/2015	31/12/2021		0.02 *	0.2
Fenpropidin	Cleancrop Fulmar, Patrol	Accepted		31/12/2018	30/06/2014		0.5	-
Fenpropimorph	Allegro Plus, Corbel	Accepted		30/04/2019	31/12/2021		0.5	0.5
Fluoxastrobin	Bayer UK 831, Fandango	Accepted		31/07/2018	31/01/2021		0.5	-
Fluquinconazole	Baron, Foil	Accepted	BEFORE ear emergence only	31/12/2021	31/12/2021		0.05 *	-
Flusilazole	Genie 25, Sanction 25	Accepted		30/06/2008	31/12/2021	Remains approved by EU despite formal expiry date having passed	0.2	0.2
Flutriafol	Consul, Impact	Accepted		31/05/2021	31/12/2021		0.5	-

Folpet	Phoenix	Accepted		30/09/2017	31/03/2020		2	-
Isopyrazam	Bontima, Seguris	Accepted	BEFORE ear emergence only	31/03/2023	23/10/2016		0.6	-
Kresoxim-methyl	Allegro, Ensign	Accepted	Mixtures with epoxiconazole BEFORE ear emergence only	31/12/2021	31/12/2021		0.05 *	0.1
Maneb	Trimangol 80	Accepted		30/06/2016	31/12/2021		2 ²	1
Metconazole	Brutus, Icarus	Accepted	Mixtures with epoxiconazole BEFORE ear emergence only	31/05/2017	30/11/2019		0.1	-
Metrafenone	Ceando, Flexity	Accepted	BEFORE ear emergence only	31/01/2017	31/12/2021		0.5	-
Picoxystrobin	Acanto, Furlong	Accepted		31/10/2016	31/12/2021		0.2	-
Prochloraz	Jockey	Accepted		31/12/2021	31/12/2021		1	2
Propiconazole	Alto Xtra, Bumper P	Accepted		31/01/2017	31/12/2021		0.2	0.2
Proquinazid	Fielder SE, Vareon	Accepted		31/07/2020	31/01/2023		0.02 *	-
Prothioconazole	Banguy, Cello	Accepted		31/07/2018	31/12/2021		0.3	-
Pyraclostrobin	Bas 528 00f, Covershield,	Accepted	BEFORE ear emergence only	31/01/2017	31/12/2021		0.3	0.5
Quinoxifen	Jackdraw, Fortress	Accepted	BEFORE ear emergence only	31/08/2014	31/10/2014		0.2	0.01 *
Spiroxamine	Torch, Thyme	Accepted		31/12/2021	30/06/2024		0.3	-
Sulphur	Headland Sulphur	Accepted		30/12/2019	31/12/2021		No limit	-
Tebuconazole	Agate, CHA 1640	Accepted		31/08/2019	31/12/2021		2	0.2
Triadimenol	Bayfidan	Accepted		31/08/2019	31/12/2021		0.2 (sum of triadimenol+ triadimefon)	0.2 for each
Trifloxystrobin	Jaunt, Martinet	Accepted		31/07/2016	31/01/2019		0.3	0.5

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Growth Regulators								
2-chloroethylphosphonic acid (ethephon)	mixtures	Accepted		31/07/2017	31/12/2021		1	1
Chlormequat	various	Accepted		30/11/2019	31/12/2021		2	2
Imazaquin	Satellite	Accepted		31/12/2018	31/12/2021		0.05 *	-
Mepiquat	Cyclade, Terpal	Accepted		28/02/2019	31/12/2021		3	-
Prohexadione calcium	Canopy	Accepted	Before GS 32 only (max. dose, 1litre/ha)	31/12/2021	31/12/2021		0.2	-
Trinexapac-ethyl	Moddus	Accepted		30/04/2017	31/10/2019		0.5	-
Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Desiccants								
Diquat	Reglone, Brogue	Not Tested		31/12/2015	30/06/2018	Safely used over a number of years	10	5
Glyphosate ³	Roundup, Touchdown Quattro, Barclay Gallup 360	Accepted		31/12/2015	30/06/2018		20 (glyphosate) 10 (trimethylsulphonium cation)	30

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Herbicides								
2,4-D	mixtures	Accepted		31/12/2015	31/04/2019		0.05 *	-
2,4-DB	Butoxone DB	Accepted		31/10/2016	30/04/2019		0.05 *	-
Amidosulfuron	Barclay Cleave	Accepted		31/12/2018	31/12/2021		0.05 *	-
Bifenox	Aspire, Oram	Accepted		31/12/2018	31/12/2021		0.1	-
Bromoxynil	Capture, Flagon 400EC	Accepted		28/02/2015	31/08/2017		0.05 *	-
Carfentrazone-ethyl	Aurora, Harrier	Accepted		31/07/2016	31/01/2019		0.05 *	-
Chlorotoluron	various	Accepted		28/02/2016	30/06/2014		0.1	-
Cinidon-ethyl	Lotus	Accepted		30/09/2012	31/03/2014		0.1 *	-
Clopyralid	Dow Shield	Accepted		30/04/2017	31/10/2019		2	-
Dicamba	Foundation, Headland Saxon	Accepted		31/12/2018	31/12/2021		7	-
Dichlorprop-P	Various	Accepted		31/05/2017	30/11/2016		0.2	-
Diclofop-methyl	Corniche, Tigress Ultra	Accepted		31/05/2021	31/12/2021		0.05 *	-
Diflufenican	Agena, Capture	Accepted		31/12/2018	30/06/2021		0.05 *	-
Fenoxaprop-P	Corniche, Foxtrot	Accepted		31/12/2018	31/12/2021		0.1	-
Florasulam	Spitfire, Starane Gold	Accepted		31/12/2015	30/06/2018		0.01 *	-
Flufenacet	Liberator, Firebird	Accepted		31/10/2016	30/04/2019		0.05 *	-
Flupyr-sulfuron-methyl	Bullion	Accepted		31/12/2015	30/06/2018		0.02 *	-
Fluroxypyr	Cerfix EC,	Accepted		31/12/2021	30/06/2024		0.1	-

	Chopper							
Flurtamone	Movon, Graduate	Accepted		31/10/2016	30/04/2019		0.02 *	-
Glufosinate-ammonium	Challenge, Harvest	Accepted		30/09/2017	31/12/2021		0.1 *	-
Glyphosate ³	Roundup, Touchdown Quattro, Barclay Gallup 360	Accepted		31/12/2015	30/06/2018		20 (glyphosate) 10 (trimethyl- sulphonium cation)	30
Iodosulfuron-methyl	Chekker	Accepted		31/10/2016	31/12/2021		0.02 *	-
Ioxynil	Capture, Oxytril CM Stellox	Accepted		28/02/2015	28/02/2015		0.05 *	-
Isoxaben	Flexidor	Accepted		31/05/2021	31/12/2021		0.1	-
MCPA	Various mixtures	Accepted		30/04/2016	31/12/2021		0.05 *(for sum of both)	-
Mecoprop-P	Various Mixtures	Accepted		31/01/2017	31/12/2021		0.05 *	-
Metsulfuron-methyl	Ally Express, Simba	Accepted		31/12/2015	30/06/2018		0.05 *	-
Pendimethalin	Stomp 400 SC	Accepted		31/07/2016	30/01/2019		0.05 *	-
Picolinafen	AC 900001, Vixen	Accepted		31/12/2015	30/06/2018		0.05 *	-
Pinoxaden	Axial	Accepted		Pending EU approval	31/05/2014		1	-
Prosulfocarb	Defy, Sincere	Accepted		31/10/2018	31/12/2021		0.05 *	-
Thifensulfuron-methyl	Calibre SX	Accepted		31/12/2015	30/06/2018		0.05 *	-
Tralkoxydim	Grasp 400SC	Accepted		30/04/2019	31/10/2014		0.02 *	-
Tri-allate	Avadex Excel 15G	Accepted		31/12/2019	31/12/2021		0.1 *	-
Tribenuron-methyl	Boudha, Calibre SX	Accepted		28/02/2016	31/12/2021		0.01 *	-

Active	Product Name (not exhaustive)	Status	Limitations	Expiry (EU)	Latest product expiry (CRD)	Comments	EU MRL	Codex MRL
Miscellaneous								
Metaldehyde (slug bait)	various	Accepted		31/05/2021	31/12/2021		0.05 *	-
Methiocarb (slug bait)	Decoy Wetex, Draza Wetex	Accepted		30/09/2017	31/12/2021		0.1 *	0.05
Pinene oligomers (anti-transpirant)	Desikote Max	Accepted		Not applicable	Not applicable	No pesticidal activity and not therefore subject to UK or EU pesticide legislation. Desikote Max is authorised by the HSE for use as an adjuvant in pesticide formulations and may also be used alone.	Not applicable	Not applicable

Footnotes:

* Denotes MRL set at limit of determination

¹ Sum of isomers

² Sum of bisdithiocarbamates expressed as CS₂

³ Including glyphosate trimethylsulphonium salts

CRD product expiry date may refer to a co-formulation with other pesticides