



PESTICIDES POLICY

FRESH PRODUCE

| Reference | Version number | Issued by | Authorised by | Date |
|-----------|----------------|----------------|---------------|------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

| Index | Page |
|---|-------------|
| 1.0 Purpose | 3 |
| 2.0 Scope | 3 |
| 3.0 Goal | 3 |
| 4.0 Good Agricultural Practice (GAP) & Integrated Crop Management (ICM) | 3 |
| 5.0 Legislation | 3 |
| 6.0 Morrisons Pesticide Control Lists (MPCLs) 6.1 Pesticide Derogation process | 4 |
| 7.0 Pesticide Residue Analysis | 4 |
| 7.1 Pesticide Residue Analysis Results | 4 |
| 7.1.1 Maximum Residue Level (MRL) Exceedance | 4 |
| 7.1.2 Detections of Unapproved Pesticides | 5 |
| 7.1.3 Near Misses | 5 |
| 7.1.4 Multiple Residues | 5 |
| 8.0 Transparency | 5 |
| 9.0 Organic | 5 |
| 10.0 Pollinators | 5 |
| 11.0 Supporting Suppliers | 6 |

Appendix 1 (Morrisons Fresh Produce Prohibited Pesticide List.) 6-7

Appendix 2 (Morrisons Fresh Produce Restricted Pesticide List.) 8-9

| Reference | Version number | Issued by | Authorised by | Date |
|------------------|-----------------------|------------------|----------------------|-------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

1.0 Purpose

The purpose of this document is to inform growers, suppliers and other stakeholders to Morrisons' business of our policy on the use of pesticides in the supply of our Fresh Produce.

2.0 Scope

This policy covers all pesticides used on Fresh Produce supplied to Morrisons Supermarkets. Suppliers are to use this in conjunction with IS08f (Morrisons Raw Material Sourcing Policy for Fresh Produce).

3.0 Goal

Morrisons requires the responsible use of pesticides at all times. All suppliers are required to employ the principles of Integrated Pest Management, Good Agricultural Practice and to disclose their use of pesticides on an annual basis to ensure as little pesticide is used as is absolutely necessary. Morrisons aims to phase out the use of Highly Hazardous Pesticides in its supply chains through its Fresh Produce Prohibited and Restricted Pesticide Lists.

4.0 Good Agricultural Practice (GAP) & Integrated Crop Management (ICM)

Morrisons requires that all of its fresh produce is grown using the principles of GAP and that growers are certified to demonstrate compliance with these principles. Therefore, all growers supplying produce to Morrisons must have their production certified as being compliant with a GAP standard such as Red Tractor <https://redtractor.org.uk/> or GLOBALG.A.P. standard <https://www.globalgap.org/>. Certification to equivalent schemes will be considered for concession by the relevant Morrisons Technical Manager. Morrisons employs an independent expert consultancy which supports our Technical teams on all pesticide matters.

ICM is a fundamental part of GAP and is an approach to farming that balances the requirements of running a profitable business with responsibility and sensitivity to the environment. ICM involves promotion of non chemical crop controls and prioritisation of practices that avoid waste, enhance energy efficiency and minimise pollution. Morrisons supports ICM initiatives throughout its supply base.

5.0 Legislation

Following the withdrawal of the United Kingdom from the European Union, suppliers must ensure that they have an understanding of the current relevant legislation. Pesticide use on crops grown in the United Kingdom must comply with the latest regulatory approvals as given in The Pesticides Register Database for on label approvals or the Extension of Authorisation for minor use Database for off label approvals. (see below)

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

| Reference | Version number | Issued by | Authorised by | Date |
|-----------|----------------|----------------|---------------|------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

Pesticide use on crops grown in countries outside the United Kingdom must comply with the approved uses in the country of origin.

Foodstuffs imported into Great Britain must comply with GB MRLs. These are based on the EU MRLs applicable on 31/12/2020, with subsequent modifications. Current GB MRLs may be found here:

<https://secure.pesticides.gov.uk/MRLs/Main>

Foodstuffs imported into Northern Ireland or transferred from Great Britain to Northern Ireland must comply with EU MRLs. Current EU MRLs may be found here:

<https://ec.europa.eu/food/plant/pesticides/eu-pesticides-database/mrls/?event=search.pr>

6.0 Morrisons Pesticide Control Lists (MPCLs)

MPCLs are processed for each crop country combination. This is the undertaking by which proposed pesticide usage is evaluated. Morrisons uses a wide range of data to formulate its pesticide risk assessments, this includes environmental impact, operator and consumer safety, approved use, legally conforming finished products, GAP and data from external authorities.

The MPCL assigns a risk rating for crop and country of production, and recommends a minimum surveillance frequency for residues throughout a season. This risk rating is based on proposed pesticides submitted for use, horizon scanning (future trends) and historical data. When a supplier submits a pesticide present on the Pesticide Action Network (PAN) Highly Hazardous Pesticides (HHP) list this is flagged to the grower.

6.1 Pesticide Derogation process

To aid transparency, alongside our pesticides policy, Morrisons is sharing its prohibited and restricted lists of pesticides which it has been developing with its independent expert consultancy; pesticides included in our prohibited list are deemed unacceptable for use, pesticides included in our Restricted list category I Where use is unavoidable a Derogation Request must be made to the relevant Technical Manager through the independent expert consultancy. This derogation will only be approved if it can be demonstrated that there is no alternative and that mitigating measures are being taken to minimise any harmful impact that the application may cause. Restricted list category II requires derogation for use and provides focus for phase-out of high risk pesticides to ensure alternatives are found at the earliest opportunity. It is Morrisons' intention to work towards phasing these pesticides out. The Prohibited and Restricted lists will be reviewed regularly.

Any use of pesticides on our Prohibited List or unapproved use of pesticides on our Restricted List would be deemed a serious breach of this Pesticide Policy and could result in the removal of Technical Approval of the grower or the supplier.

7.0 Pesticide Residue Analysis

Each supplier to Morrisons must conduct their own Pesticide Residue Analysis at an accredited laboratory (ISO/IEC 17025) that can demonstrate participation in inter-laboratory comparative tests, to ensure the compliance of their crop with this pesticide policy. Furthermore, Morrisons conducts a risk-based Pesticide Surveillance Programme. Crops and countries that are deemed to be high risk are tested more frequently.

7.1 Pesticide Residue Analysis Results

7.1.1 Maximum Residue Level (MRL) Exceedance

An MRL is the Maximum Level of pesticide Residue expected to be found in food that has been produced

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|-----------|----------------|----------------|---------------|------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

following good agricultural practice, it is a legal limit and is not indicative of food safety.

In the event of an MRL exceedance in fresh produce supplied to Morrisons, this will be thoroughly investigated by the relevant member of the Morrisons' technical team and our independent expert consultancy to determine the potential impact, the root cause and the corrective action.

Where the residue level exceeds the Acute Reference Dose (ARfD), it is deemed to be a Food Safety issue and our Food Safety Team is notified.

The supplier must immediately conduct a trace forward to determine how much of the product from the affected batch is in the Morrisons' system. If the product is in our stores, it will be withdrawn. If it is in our distribution centres or manufacturing sites it will be rejected.

Where the results of the investigation are satisfactory, corrective actions will be agreed to prevent a recurrence. Where they are not, technical approval may be withdrawn from the grower or the supplier.

7.1.2 Detections of Unapproved Pesticides

Any residue results that show a pesticide from the Restricted List that has not been approved via derogation will be deemed a serious breach of this policy. The supplier will be required to conduct a root cause analysis and submit their findings and corrective actions for approval by the relevant Technical Manager. If the findings are deemed to be unsatisfactory, technical approval may be withdrawn from the supplier or the grower.

7.1.3 Near Misses

Surveillance results which fall between 80% and 100% of the MRL will be deemed to be a 'near miss'. The supplier will be required to conduct an investigation and submit their findings plus any resulting actions to our independent expert consultancy for approval by the relevant Technical Manager.

7.1.4 Multiple Residues

Where the residue surveillance results show the number of residues found is significantly higher than the norm for the crop and country combination the supplier will be required to conduct a root cause analysis and submit their findings plus any resulting actions to our independent expert consultancy for approval by the relevant Technical Manager.

8.0 Transparency

As a commitment to transparency for our customers and stakeholders Morrisons will publish this policy and its Prohibited and Restricted Lists. These documents will be reviewed periodically.

We shall continue to publish the results of our Pesticide Surveillance Programme. We shall continue to share our learnings on pesticides through our grower groups.

9.0 Organic

Morrisons offers an Organic range of fresh produce for those customers who wish to purchase products produced to Organic standards. Our Organic fresh produce range is certified independently to national and international Organic standards.

10.0 Pollinators

| Reference | Version number | Issued by | Authorised by | Date |
|------------------|-----------------------|------------------|----------------------|-------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

Morrisons encourages its suppliers to monitor pollinator populations. Suppliers are required to explore less toxic control methods prior to using Bee toxic neonicotinoids in order to be able to justify why alternative pest control methods are not an option. Morrisons is running a program called 'Project pollinator'. This project began at Chippindales, a wholly owned subsidiary of Morrisons who supply Morrisons free range own brand shell eggs. This project is in the process of being rolled out to our UK fresh produce growers to encourage farmers to plant bee friendly habitats on their farms. Morrisons supply seed mix to farmers at competitive prices to minimise barriers for farmers planting bee strips. We also provide guidance on how to apply for Countryside Stewardship grants.

Morrisons Bee Pack PDF:

<https://drive.google.com/file/d/1BY-oE7zWcdqFNThWAlIWVS7GU825bRRo/view?usp=sharing>

Morrisons continues to review the use of pesticides with specific toxicity to bees and other pollinators and highlight these in our MPCLs. Morrisons actively encourage our growers and suppliers to find alternative pesticides with less toxicity and to monitor pollinator populations. We are currently evaluating the global use of neonicotinoids in our fresh produce supply base together with our independent expert consultancy firm. Proposed uses of the three nitro-neonicotinoids: clothianidin, imidacloprid and thiamethoxam are being studied as part of a stewardship program.

11.0 Supporting Suppliers

Morrisons Technical Team is based in the UK and overseas in key sourcing countries, (Spain, South Africa, Peru, Costa Rica and The Netherlands). These teams are supplier facing and include qualified agronomists who work closely with our global supply base to ensure sourcing of fresh produce that meets Morrisons standards and complies with UK legislation. Our multilingual team promotes the sharing of best practices related to ICM, pesticide reduction and HHP stewardship.

Morrisons have launched a series of grower groups focused on Integrated Pest Management (IPM). These groups have been organised in conjunction with our independent expert consultancy firm, to share best practice and promote development of novel techniques through encouraging collaborative work. We are also working with our supply base to reduce post harvest treatments and evaluate new natural alternatives. As a next phase to our grower groups we will focus on opportunities to assist with research for Bio pesticide producers.

Appendix 1

Morrisons Fresh Produce Prohibited Pesticide List.

1,2-dibromoethane
 1,2-dichloroethane
 2,4,5-T
 Acetochlor
 Alachlor
 Aldicarb
 Aldrin
 Anthraquinone
 ANTU (Alpha-naphthylthiourea)*
 Azinphos-ethyl
 Azinphos-methyl

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|-----------|----------------|----------------|---------------|------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

Azobenzene
 Azocyclotin
 Binapacryl
 Bromethalin
 Cadmium compounds
 Calcium arsenate
 Calcium cyanide
 Camphechlor (Toxaphene)
 Captafol
 Carbofuran
 Chlordane
 Chlordecone
 Chlordimeform
 Chlorethoxyfos
 Chlorfenvinphos
 Chlormephos
 Chlorobenzilate
 Chlorophacinone
 Cyhexatin
 DDT
 Demeton-S-methyl
 Dicofol*
 Dieldrin
 Difethialone
 Dinoseb
 Dinoterb
 DNOC
 Endosulfan
 Endrin
 EPN
 Ethiofencarb*
 Ethion
 Ethylene oxide
 Etrimfos
 Fentin acetate (Triphenyltin acetate)
 Fentin hydroxide (Triphenyltin hydroxide)*
 Fluazolate
 Fluoroacetamide
 Formaldehyde*
 Formothion*
 Guazatine
 HCH-alpha
 HCH-beta
 HCH-delta
 HCH-gamma (Lindane)
 Heptachlor
 Heptenophos*
 Hexachlorobenzene
 Isazofos*
 Mephosfolan*
 Mercury compounds
 Methamidophos
 Methoxychlor*
 Methyl bromide
 Mevinphos*

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Mirex
 Monocrotophos
 Nitrofen*
 Omethoate*
 Oxydemeton-methyl
 Parathion
 Parathion-methyl
 Pentachlorophenol
 Phenyl mercury acetate
 Phorate
 Phosalone*
 Phosphamidon
 Potassium arsenite*
 Propoxur*
 Pyrazophos*
 Pyrazoxon
 Quinalphos*
 Quintozone (PCNB)*
 Silafluofen
 Sodium arsenite
 Sodium fluoroacetate
 Sulfotep
 Tebupirimfos
 Tecnazene*
 Temephos
 Thiometon*
 Trichlorfon*
 Vinclozolin
 Warfarin

Morrisons Fresh Produce Restricted Pesticide List.

Annex 1

2-aminobutane
 Acephate
 Atrazine
 Benfuracarb
 Benomyl
 Carbosulfan
 Chlorpyrifos
 Chlorpyrifos-methyl
 Cyanazine
 Dichlorvos
 Dicrotophos
 Dimethoate
 Diphenylamine
 Ethoprophos
 Ethoxyquin
 Fenitrothion
 Fenthion
 Furathiocarb
 Isofenphos
 Naled
 Nicotine
 Oxadixyl
 Sulfuramide
 Terbufos

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|-----------|----------------|----------------|---------------|------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |

Triazophos
Triazoxide
Tridemorph

Annex II

Amitraz
Biphenyl
Blasticidin S
Brodifacoum
Bromadiolone
Bromopropylate
Butocarboxim
Butoxycarboxim
Cadusafos
Clothianidin
Diazinon
Dichlobenil
Difenacoum
Dinotefuran
Diphacinone
Edifenphos
Famphur
Fenamiphos
Fenarimol
Fenpropathrin
Flocoumafen
Flucythrinate
Gentamicin sulfate
Imidacloprid
Iprodione
Isoproturon
Isoxathion
Malathion
Mecarbam
Methidathion
Methiocarb
Methomyl
MSMA
Natamycin (Pimaricin)
Oxolinic acid
Oxytetracycline (Terramicin)
Paraquat
Permethrin
Profenofos
Prometryn
Propargite
Propetamphos
Simazine
Streptomycin
Terbutryn
Tetracycline
Thiamethoxam
Thiodicarb
Thiofanox
Tolyfluanid
Tricyclazole
Trifluralin
Vamidothion

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|-----------|----------------|----------------|---------------|------------|
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|---|-----------------------|------------------|----------------------|-------------|
| IS08f1 | 2 | Gordon Cameron | Damon Johnson | 19/08/2022 |
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