



Sunflower residue testing annual datasets 2016–17

National Residue Survey, Department of Agriculture and Water Resources

Dataset abbreviations

LOR Limit of reporting.

MRL Maximum residue limit.

no limit No Australian standard applicable for the contaminant. The ‘as low as reasonably achievable’ principle applies. Detections at low levels are allowable.

not defined Standards are not defined in inedible matrixes (urine and faeces).

not set No Australian standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australia New Zealand Food Standards Code.

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Table 1 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
azoxystrobin	whole	0.01	not set	1	–	0
benalaxyl	whole	0.01	not set	1	–	0
bitertanol	whole	0.01	not set	1	–	0
boscalid	whole	0.01	0.5	1	0	0
bupirimate	whole	0.01	not set	1	–	0
captafol	whole	0.02	not set	1	–	0
captan	whole	0.01	not set	1	–	0
carbendazim	whole	0.01	not set	1	–	0
chlorothalonil	whole	0.01	0.01	1	0	0
cyproconazole	whole	0.01	not set	1	–	0
cyprodinil	whole	0.01	not set	1	–	0
difenoconazole	whole	0.01	not set	1	–	0

Sunflower residue testing annual datasets 2016–17

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	1	–	0
dithianon	whole	0.01	not set	1	–	0
dodine	whole	0.01	not set	1	–	0
epoxiconazole	whole	0.01	not set	1	–	0
etridiazole	whole	0.01	not set	1	–	0
fenarimol	whole	0.01	not set	1	–	0
fenhexamid	whole	0.01	not set	1	–	0
fluazinam	whole	0.01	not set	1	–	0
fludioxonil	whole	0.01	0.02	1	0	0
fluquinconazole	whole	0.01	not set	1	–	0
flusilazole	whole	0.01	not set	1	–	0
flutriafol	whole	0.01	not set	1	–	0
fluxapyroxad	whole	0.01	0.1	1	0	0
hexaconazole	whole	0.01	not set	1	–	0
imazalil	whole	0.01	not set	1	–	0
ipconazole	whole	0.01	not set	1	–	0
iprodione	whole	0.01	not set	1	–	0
kresoxim-methyl	whole	0.01	not set	1	–	0
metalaxyl	whole	0.01	not set	1	–	0
myclobutanil	whole	0.01	not set	1	–	0
oxadixyl	whole	0.01	not set	1	–	0
penconazole	whole	0.01	not set	1	–	0
prochloraz	whole	0.01	not set	1	–	0
procymidone	whole	0.01	not set	1	–	0
propiconazole	whole	0.01	0.5	1	0	0
prothioconazole	whole	0.01	not set	1	–	0
pyraclostrobin	whole	0.01	0.3	1	0	0
pyrimethanil	whole	0.01	not set	1	–	0
quinoxifen	whole	0.01	not set	1	–	0
spiroxamine-P	whole	0.01	not set	1	–	0
tebuconazole	whole	0.01	not set	1	–	0
thiabendazole	whole	0.01	not set	1	–	0
tolclofos methyl	whole	0.01	not set	1	–	0
triadimefon	whole	0.01	not set	1	–	0
triadimenol	whole	0.01	not set	1	–	0
trifloxystrobin	whole	0.01	not set	1	–	0
triticonazole	whole	0.01	not set	1	–	0
vinclozolin	whole	0.01	not set	1	–	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	whole	0.01	0.1	1	0	0
2,4-D	whole	0.01	0.05	1	0	0
atrazine	whole	0.01	not set	1	–	0
bromacil	whole	0.01	not set	1	–	0
bromoxynil	whole	0.01	not set	1	–	0
carfentrazone-ethyl	whole	0.01	not set	1	–	0
chlorpropham	whole	0.01	not set	1	–	0
chlorsulfuron	whole	0.01	not set	1	–	0
chlorthal-dimethyl	whole	0.01	not set	1	–	0
clethodim (parent only)	whole	0.01	0.1	1	0	0
clodinafop-propargyl	whole	0.01	not set	1	–	0
clopyralid	whole	0.01	not set	1	–	0
cyanazine	whole	0.01	not set	1	–	0
dicamba	whole	0.01	not set	1	–	0
dichlobenil	whole	0.01	not set	1	–	0
dichlorprop-P	whole	0.01	not set	1	–	0
diflufenican	whole	0.01	not set	1	–	0
diuron	whole	0.01	0.5	1	0	0
ethofumesate	whole	0.01	not set	1	–	0
flumetsulam	whole	0.01	not set	1	–	0
imazamox	whole	0.01	not set	1	–	0
imazapic	whole	0.01	not set	1	–	0
imazapyr	whole	0.01	not set	1	–	0
imazaquin	whole	0.01	not set	1	–	0
imazethapyr	whole	0.01	not set	1	–	0
iodosulfuron-methyl	whole	0.01	not set	1	–	0
ioxynil	whole	0.01	not set	1	–	0
isoxaben	whole	0.01	not set	1	–	0
linuron	whole	0.01	not set	1	–	0
MCPA	whole	0.01	not set	1	–	0
methabenzthiazuron	whole	0.01	not set	1	–	0
metolachlor	whole	0.01	0.05	1	0	0
metosulam	whole	0.01	not set	1	–	0
metribuzin	whole	0.01	not set	1	–	0
metsulfuron-methyl	whole	0.01	not set	1	–	0
napropamide	whole	0.01	not set	1	–	0
norflurazon	whole	0.01	not set	1	–	0
oryzalin	whole	0.01	not set	1	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
oxyfluorfen	whole	0.01	not set	1	–	0
pendimethalin	whole	0.01	0.05	1	0	0
picloram	whole	0.01	not set	1	–	0
propachlor	whole	0.01	not set	1	–	0
propyzamide	whole	0.01	not set	1	–	0
saflufenacil	whole	0.01	0.03	1	0	0
sethoxydim	whole	0.01	0.1	1	0	0
simazine	whole	0.01	not set	1	–	0
tralkoxydim	whole	0.01	not set	1	–	0
triasulfuron	whole	0.01	not set	1	–	0
triclopyr	whole	0.01	not set	1	–	0
trifluralin	whole	0.01	0.05	1	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
abamectin	whole	0.01	not set	1	–	0
acephate	whole	0.01	not set	1	–	0
acetamiprid	whole	0.01	not set	1	–	0
aldicarb	whole	0.01	not set	1	–	0
amitraz	whole	0.01	not set	1	–	0
azamethiphos	whole	0.01	not set	1	–	0
azinphos-methyl	whole	0.01	not set	1	–	0
bifenazate	whole	0.01	not set	1	–	0
bifenthrin	whole	0.01	not set	1	–	0
bioresmethrin	whole	0.01	not set	1	–	0
buprofezin	whole	0.01	not set	1	–	0
cadusafos	whole	0.01	not set	1	–	0
carbaryl	whole	0.01	0.1	1	0	0
carbofuran	whole	0.01	not set	1	–	0
chlorantraniliprole	whole	0.01	2	1	0	0
chlorfenapyr	whole	0.01	not set	1	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	not set	1	–	0
chlorpyrifos	whole	0.01	0.01	1	0	0
chlorpyrifos-methyl	whole	0.01	not set	1	–	0
clofentezine	whole	0.01	not set	1	–	0
clothianidin	whole	0.01	0.01	1	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	1	–	0

Sunflower residue testing annual datasets 2016–17

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
cyhalothrin (sum of isomers)	whole	0.01	0.01	1	0	0
cypermethrin (sum of isomers)	whole	0.01	0.1	1	0	0
deltamethrin	whole	0.01	0.1	1	0	0
diafenthiuron	whole	0.01	not set	1	–	0
diazinon	whole	0.01	not set	1	–	0
dichlorvos	whole	0.01	0.01	1	0	0
dicofol	whole	0.01	not set	1	–	0
diflubenzuron	whole	0.01	not set	1	–	0
dimethoate	whole	0.01	0.2	1	0	0
disulfoton	whole	0.01	not set	1	–	0
emamectin	whole	0.01	not set	1	–	0
esfenvalerate	whole	0.01	0.5	1	0	0
ethion	whole	0.01	not set	1	–	0
ethoprophos	whole	0.005	not set	1	–	0
etoxazole	whole	0.01	not set	1	–	0
fenamiphos	whole	0.01	not set	1	–	0
fenbutatin oxide	whole	0.01	not set	1	–	0
fenitrothion	whole	0.01	0.1	1	0	0
fenoxycarb	whole	0.01	not set	1	–	0
fenpyroximate	whole	0.01	not set	1	–	0
fenthion	whole	0.01	not set	1	–	0
fenvalerate (sum of isomers)	whole	0.01	0.5	1	0	0
fipronil	whole	0.002	0.01	1	0	0
hexythiazox	whole	0.01	not set	1	–	0
imidacloprid	whole	0.01	0.02	1	0	0
indoxacarb	whole	0.01	1	1	0	0
malathion (maldison)	whole	0.01	10	1	0	0
methacrifos	whole	0.01	not set	1	–	0
methamidophos	whole	0.01	not set	1	–	0
methidathion	whole	0.01	1	1	0	0
methiocarb	whole	0.01	not set	1	–	0
methomyl	whole	0.01	0.1	1	0	0
methoprene	whole	0.01	not set	1	–	0
methoxychlor	whole	0.01	not set	1	–	0
methoxyfenozide	whole	0.01	not set	1	–	0
mevinphos	whole	0.01	not set	1	–	0
monocrotophos	whole	0.01	not set	1	–	0
omethoate	whole	0.01	0.05	1	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
parathion	whole	0.01	not set	1	–	0
parathion-methyl	whole	0.01	not set	1	–	0
permethrin (sum of isomers)	whole	0.01	0.2	1	0	0
phenothrin (sum of isomers)	whole	0.01	not set	1	–	0
phorate	whole	0.01	not set	1	–	0
phosmet	whole	0.01	not set	1	–	0
piperonyl butoxide	whole	0.01	8	1	0	0
pirimicarb	whole	0.01	not set	1	–	0
pirimiphos-methyl	whole	0.01	not set	1	–	0
profenofos	whole	0.01	not set	1	–	0
propargite	whole	0.01	not set	1	–	0
prothiofos	whole	0.01	not set	1	–	0
pymetrozine	whole	0.01	not set	1	–	0
pyrethrins	whole	0.01	1	1	0	0
pyriproxyfen	whole	0.01	not set	1	–	0
spinetoram	whole	0.01	not set	1	–	0
spinosad	whole	0.01	not set	1	–	0
spirotetramat	whole	0.01	not set	1	–	0
sulfoxaflor	whole	0.01	not set	1	–	0
tau-fluvalinate	whole	0.01	not set	1	–	0
tebufenozide	whole	0.01	not set	1	–	0
tebufenpyrad	whole	0.01	not set	1	–	0
terbufos	whole	0.01	0.05	1	0	0
tetradifon	whole	0.01	not set	1	–	0
thiacloprid	whole	0.01	not set	1	–	0
thiamethoxam	whole	0.01	0.02	1	0	0
thiodicarb	whole	0.01	not set	1	–	0
triazofos	whole	0.01	not set	1	–	0
trichlorfon	whole	0.01	0.1	1	0	0
triflumuron	whole	0.01	not set	1	–	0

Table 4 Contaminants

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin (HHDN+HEOD)	whole	0.01	not set	1	–	0
chlordane	whole	0.01	not set	1	–	0
DDT	whole	0.01	not set	1	–	0

Sunflower residue testing annual datasets 2016–17

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
endosulfan	whole	0.01	not set	1	–	0
endrin	whole	0.01	not set	1	–	0
HCB (hexachlorobenzene)	whole	0.01	not set	1	–	0
HCH (BHC)	whole	0.01	not set	1	–	0
heptachlor	whole	0.01	not set	1	–	0
lindane (gamma-HCH)	whole	0.01	0.05	1	0	0
mirex	whole	0.01	not set	1	–	0