Example of a Codex-based Import MRL Request - FENHEXAMID

This hydroxyanilide fungicide is approved for use against Botrytis (bunch rot) in grapes in a number of exporting economies in Asia, Europe, North America and the Pacific.

To facilitate trade in fresh grapes, dried grapes, grape juice and wine within the APEC community, an Import MRL is being requested for grapes. In addition, in economies where residues in dried commodities are not covered by the MRLs for the RAC (e.g. by correction for moisture loss), an Import MRL for dried grapes is also requested. The requested MRLs (higher than currently adopted in several economies) are at the same level as the Codex MRLs and references to the relevant JMPR evaluation reports are provided as supporting information.

Pesticide name (ISO)	Fenhexamid				
IUPAC	2',3'-dichloro-4'-hydroxy-1-methylcyclohexanecarboxanilide				
CAS No.	126833-17-8				
Residue definitions		Source			
For compliance with MRLs	Fenhexamid	JMPR 2005			
For estimation of dietary intake	Fenhexamid	JMPR 2005			
Health based guidance values					
ADI	0-0.02 mg/kg bw	JMPR 2005			
ARfD	Not necessary	JMPR 2005			

Authorised GAP	Foliar sprays: max 2 × 0.05 kg ai/hL (high volume) or 0.25 kg ai/hL (low volume) Pre Harvest Interval: 21 days			
Name of the requested commodity	Grapes			
or group	Dried grapes (if not covered by the RAC MRL)			
Commodity to be imported,	FB 1235	Table grapes		
including any processed	FB 1263	Wine grapes (w	vine)	
commodities	DF 269	Dried grapes		
	JF 269	Grape juice		
Requested MRLs	FB 269	Grapes	15 mg/kg	
	DF 269	Dried grapes	25 mg/kg	
Origin/source of the requested MRL	Codex (CAC 20	06)		
Residue Summary				
Supervised Trial Median	Grapes	4.3 mg/kg		
Residue (STMR)	Wine	1.2 mg/kg (prod	cessing factor of 0.28)	
	Dried grapes	8.0 mg/kg (processing factor of 1.86)		
	Grape juice	2.2 mg/kg ((pro	ocessing factor of 0.51)	
Highest Residue (HR)	Grapes	11 mg/kg		
	Dried grapes	20 mg/kg (proc	essing factor of 1.86)	

Pesticide name (ISO)	Fenhexamid				
Link to the source of the HR, STMR data	http://www.fao.org/fileadmin/templates/agphome/docume nts/Pests Pesticides/JMPR/Evaluation05/2005 Fenhexamid1 .pdf				
Reference link/s to published MRL in Codex or by alternative source other than Codex (if available)	http://www.fao.org/fao-who- codexalimentarius/standards/pestres/search/en/				
<i>Current status for this MRL in other jurisdictions</i>	Australia Canada EU Japan Korea (Republic) USA	Grapes Dried grapes Grapes Grapes Grapes Grapes Grapes Dried grapes	10.0 mg/kg 20.0 mg/kg 4.0 mg/kg 15.0 mg/kg 20.0 mg/kg 3.0 mg/kg 4.0 mg/kg 6.0 mg/kg		

Dietary Exposure Assessments

Based on the information outlined above the following estimates of long-term dietary exposure have been calculated. Short-term exposure estimates have not been calculated as an Acute RfD is not considered necessary.

Commodities included in these estimates are table grapes, dried grapes, grape juice and wine. These have been calculated using the GEMS/Food Cluster Diets (2012) and the chronic exposure evaluation template published on the WHO website: <u>http://www.who.int/foodsafety/areas_work/chemical-risks/gems-food/en/</u>

FENHEXAMID	International Estimated Daily Intake (IEDI)			ADI = 0-0.02 mg/kg bw			
Commodity description	Expr as	STMR	G09	G09	G10	G10	
		mg/kg	diet	intake	diet	intake	
Grape, raw	RAC	4.3	5.21	22.40	9.38	40.33	
Grape, dried (= currants, raisins and sultanas)	рр	8	0.10	0.80	1.38	11.04	
Grape juice	RAC	2.2	0.10	0.22	2.24	4.93	
Grape wine (incl vermouths)	RAC	1.2	1.84	2.21	25.07	30.08	
Total intake (µg/person)=		•	•	125.6		86.4	

Long-term dietary exposure assessment

FENHEXAMID	International Estimated Daily Intake (IEDI) ADI = (0-0.02 mg/kg bw		
Commodity description	Expr as	STMR	G09	G09	G10	G10
		mg/kg	diet	intake	diet	intake
Bodyweight per region (kg bw) =				55		60
ADI (μg/person)=				11000		12000
%ADI=				0.2%		0.7%
Rounded %ADI=				0%		1%

Group 9:Bangladesh, Cambodia, China, DPR Korea, Guinea Bissau, Indonesia, Loa, Myanmar, Nepal,
Philippines, Sierra Leone, Thailand, Timor Leste, Viet Nam.Group 10Belarus, Bulgaria, Canada, Croatia, Cyprus, Estonia, Italy, Japan, Latvia, Malta, New Zealand, Republic
of Korea, Russian Federation, USA

Based on the above cluster diets and the IEDI for fenhexamid, the added dietary contribution of residues for grape commodities (table grapes, dried grapes, grape juice and wine) is not more than 1% of the acceptable daily intake.