

HERBICIDES FOR ALIEN PLANT CONTROL

HERBICIDES FOR ALIEN PLANT CONTROL					PPE			Medical Biomonitoring		Frequency and Duration		Environmental monitoring
Chemical group	MOA	Examples	Hazard Group	Hazard Criterion	Type	Pictogram	Classification	Blood	Urine	Blood	Urine	Environmental monitoring
1	Imidazolinones	Group 2: ALS: AHAS inhibitors	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H319 (causes serious eye irritation) H335 (Respiratory irritant) H315 (causes skin irritation)</p>	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing 3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack 8. Long-sleeved shirts	      	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100	N/A	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	N/A	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave the programme	
			8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>								Hazard criterion 7 and 8 are linked to environmental risks

					 H412 (harmful to aquatic life with long lasting effects)							
2	Sulfonylureas	Group 2: ALS: AHAS inhibitors	Metsulfuron-methyl (Brush-off, Climax, Forester, Extreme, Nikanor)	7	Acute toxicity to aquatic organisms GHS09 WARNING  H400 (Very toxic to aquatic life)							
				2	Acute toxicity to mammals and birds GHS07 WARNING  H315 (causes skin irritation) H335 (Respiratory tract irritant) H319 (Causes serious eye irritation)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing    3.Safety boots 4.Face & Eye protection  5.Half-face respirators  6.Particulate air filters for respirators  7.Apron/ Knapjack  8. Long-sleeved shirts	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100	N/A	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	N/A	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme	

Carboxylic acids	Group 4: Synthetic auxins	Picloram (Access, Browser, Scrubber)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H302 (harmful if swallowed) H312 (harmful in contact with skin) H319 (Causes serious eye irritation) H332 (harmful if inhaled)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>  <p>3. Safety boots</p>  <p>4. Face & Eye protection</p>  <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p>  <p>7. Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p> 	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	<p>1. All workers need to be tested before they start working.</p> <p>2. If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every year.</p> <p>3. All workers need to be tested once they leave the programme</p>					
			3	<p>Carcinogenicity GHS07 WARNING</p>  <p>H335 (May cause respiratory irritation)</p>	Same as above	Same as above	Same as above	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	<p>1. All workers need to be tested before they start working.</p> <p>2. If the worker sprays 8 hours per</p>				

					8. Long-sleeved shirts							
				7	Acute toxicity to aquatic organisms GHS09 WARNING  H400 (Very toxic to aquatic life)							
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects) H412 (harmful to aquatic life with long lasting effects)							
Phenoxy acids	Group 4: Synthetic auxins	Alkylchlorophenoxy (2,4D)	2	Acute toxicity to mammals and birds GHS07 WARNING  H302 (Harmful if swallowed) H317 (May cause an allergic reaction) H318 (causes serious eye damage)	1.Chemically resistant nitrile gloves  2.Type 3 and Type 4 protective clothing    3.Safety boots  4.Face & Eye protection 	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every year. 3. All workers need to be tested once they leave the programme				

					<p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p>	 	<p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>				
			3	<p>Carcinogenicity GHS07 WARNING</p>  <p>H335 (May cause respiratory irritation)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>    <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p>	     	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>		

				5	<p>Developmental & Reproductive toxicity GHS08 DANGER</p>  <p>H361 (Suspected of damaging fertility or the unborn child)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p> <p>Type 5 protective clothing</p> <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	      	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>		
				8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>							

					 H412 (Harmful to aquatic life with long lasting effects)							
			Pyridine compounds as butoxy ethyl esters (Garlon 4, Garlon max, Nuvogon, Triclon, Viroaxe, Triclomax, Turbador)	2	Acute toxicity to mammals and birds GHS07 WARNING  H302 (Harmful if swallowed) H317 (May cause an allergic reaction) H319 (causes serious eye irritation) H373 (May cause damage to organs – heart, liver, kidneys)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing 3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack	     	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme		
				5	Developmental and Reproductive toxicity GHS08 DANGER  H360 (May damage fertility or the unborn child)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing	 	EN ISO 20345 EN 166:2001 EN140	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per		

						 Type 5 protective clothing  3.Safety boots 4.Face & Eye protection  5.Half-face respirators 6.Particulate air filters for respirators  7.Apron/ Knapjack 8. Long-sleeved shirts 	EN 149 EN 143:2000 R95, R99, R100			day for 5 days per week, an additional test needs to be done every 5 years.. 3. All workers need to be tested once they leave the programme		
			8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H411 (Toxic to aquatic life with long lasting effects)								
Quinoline carboxylic acid	Group 4: Synthetic auxins	Pyridine compounds such As Triclopyr as amine salts	2	Acute toxicity to mammals and birds GHS07 WARNING 	1.Chemically resistant nitrile gloves 	EN 374:2016		5cc fresh urine sample refrigerated. Tested		1.All workers need to be tested before they start working.		

		(Lumberjack, Timbrel)		 H302 (Harmful if swallowed) H317 (May cause an allergic reaction) H318 (Causes serious eye damage) H315 (Causes skin irritation) H335 (may cause respiratory irritation) H336 (may cause drowsiness or dizziness) H360 (may damage fertility or the unborn child)	2.Type 3 and Type 4 protective clothing   3.Safety boots 4.Face & Eye protection  5.Half-face respirators  6.Particulate air filters for respirators  7.Apron/ Knapjack 	EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100	using ELIZA dipstick test	2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme			
			8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H411 (Toxic to aquatic life with long lasting effects)							
Quinoline carboxylic acid	Group 4: Synthetic auxins	Pyridine compounds such as fluroxypyr (Tomahawk,	8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation							

			Starane, Voloxypr)		GHS09 WARNING  H411 (Toxic to aquatic life with long lasting effects)							
Quinoline carboxylic acid	Group 4: Synthetic auxins	Pyridine compounds such as Aminopyralid s (Sendero)	2	Acute toxicity to mammals and birds GHS07 WARNING  H315 (Causes skin irritation) H318 (causes serious eye damage) H319 (Causes serious eye irritation) H335 (may cause respiratory irritation)	1.Chemically resistant nitrile gloves  2.Type 3 and Type 4 protective clothing    3.Safety boots  4.Face & Eye protection  5.Half-face respirators  6.Particulate air filters for respirators  7.Apron/ Knapjack 	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme				
			7	Acute toxicity to aquatic organisms GHS09 WARNING  H400 (Very toxic to aquatic life)								

				8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H411 (Toxic to aquatic life with long lasting effects)</p>							
Combinations	Group 4: Synthetic auxins	Quinoline carboxylic acid such as Picloram + Pyridine compound such as Fluroxypyr (Plenum, Gladiator)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H302 (harmful if swallowed) H312 (harmful in contact with skin) H319 (Causes serious eye irritation) H332 (harmful if inhaled)</p>	<p>1. Chemically resistant nitrile gloves</p>  <p>2. Type 3 and Type 4 protective clothing</p>  <p>3. Safety boots</p>  <p>4. Face & Eye protection</p>  <p>5. Half-face respirators</p>  <p>6. Particulate air filters for respirators</p>  <p>7. Apron/ Knapjack</p> 	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	<p>1. All workers need to be tested before they start working.</p> <p>2. If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years.</p> <p>3. All workers need to be tested once they leave the programme</p>				
			3	<p>Carcinogenicity GHS07 WARNING</p>	<p>1. Chemically resistant nitrile gloves</p>	<p>EN 374:2016</p>	20cc fresh blood sample.	1. All workers need to be				

					 H335 (May cause respiratory irritation)	2.Type 3 and Type 4 protective clothing  3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack	     	EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100	AChE tests done with Test-Mate model 400 device	tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme		
			6	Endocrine Disrupting Chemicals (EDC) GHS08 DANGER  H370 (causes damage to organs – lungs)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing  Type 5 protective clothing 	  	EN ISO 20345 EN 166:2001 EN140 EN 149 EN 143:2000	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done			

					<p>3.Safety boots</p> <p>4.Face & Eye protection</p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	  	R95, R99, R100			every 2 years.. 3. All workers need to be tested once they leave the programme		
			7	<p>Acute toxicity to aquatic organisms GHS09 WARNING</p>  <p>H400 (Very toxic to aquatic life)</p>								
			8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H410 (Very toxic to aquatic life with long lasting effects) H412 (harmful to aquatic life with long lasting effects)</p>								

Combinations	Group 4: Synthetic auxins	Pyridine compounds such as Fluroxypyr + Pyridine compounds such as Triclopyr as Pyridyloxy compound (Impala)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H302 (Harmful if swallowed) H317 (May cause an allergic reaction) H319 (causes serious eye irritation) H373 (May cause damage to organs – heart, liver, kidneys)</p>	<p>1.Chemically resistant nitrile gloves</p> <p>2.Type 3 and Type 4 protective clothing</p>  <p>3.Safety boots</p> <p>4.Face & Eye protection</p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p> <p>8. Long-sleeved shirt</p>	     	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>		5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test		<p>1.All workers need to be tested before they start working.</p> <p>2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years.</p> <p>3. All workers need to be tested once they leave they programme</p>	
			5	<p>Developmental and Reproductive toxicity GHS08 DANGER</p>  <p>H360 (May damage fertility or the unborn child)</p>	<p>1.Chemically resistant nitrile gloves</p> <p>2.Type 3 and Type 4 protective clothing</p> 		<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p>	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device		<p>1.All workers need to be tested before they start working.</p> <p>2.If the worker sprays 8 hours per day for 5 days per</p>		

					<p>Type 5 protective clothing </p> <p>3.Safety boots </p> <p>4.Face & Eye protection </p> <p>5.Half-face respirators </p> <p>6.Particulate air filters for respirators </p> <p>7.Apron/ Knapjack </p> <p>8. Long-sleeved shirts</p>	<p>EN 143:2000</p> <p>R95, R99, R100</p>			<p>week, an additional test needs to be done every 5 years..</p> <p>3. All workers need to be tested once they leave the programme</p>	
			8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING </p> <p>H411 (Toxic to aquatic life with long lasting effects)</p>						
Combinations	Group 4: Synthetic auxins	Quinoline carboxylic acid such as Picloram + Pyridine compound	2	<p>Acute toxicity to mammals and birds GHS07 WARNING </p>	<p>1.Chemically resistant nitrile gloves </p> <p>2.Type 3 and Type 4</p>	<p>EN 374:2016</p> <p>EN 14605:2005</p>				

			such Triclopyr as trimethylamine salt (Kaput gel)		<p>H302 (harmful if swallowed)</p> <p>H312 (harmful in contact with skin)</p> <p>H315 (causes skin irritation)</p> <p>H317(May cause allergic skin reaction)</p> <p>H319 (Causes serious eye irritation)</p> <p>H332 (harmful if inhaled)</p> <p>H335 (May cause respiratory irritation)</p> <p>H336 (may cause drowsiness or dizziness)</p>	<p>protective clothing</p>  <p>3.Safety boots</p>  <p>4.Face & Eye protection</p>  <p>5.Half-face respirators</p>  <p>6.Particulate air filters for respirators</p>  <p>7.Apron/ Knapjack</p> 	<p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>				
				3	<p>Carcinogenicity GHS07 WARNING</p>  <p>H335 (May cause respiratory irritation)</p>	<p>1.Chemically resistant nitrile gloves</p>  <p>2.Type 3 and Type 4 protective clothing</p>  <p>3.Safety boots</p>  <p>4.Face & Eye protection</p>  <p>5.Half-face respirators</p> 	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1.All workers need to be tested before they start working.</p> <p>2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years..</p> <p>3. All workers need to be</p>		

					<p>6.Particulate air filters for respirators</p> 	<p>EN 140, EN149, EN 143:200</p>			<p>tested once they leave the programme</p>	
					<p>7.Apron/ Knapjack</p> 	<p>R95, R99, R100</p>				
			5	<p>Developmental and Reproductive toxicity GHS08 DANGER</p>  <p>H360 (May damage fertility or the unborn child)</p>	<p>1.Chemically resistant nitrile gloves</p>  <p>2.Type 3 and Type 4 protective clothing</p>  <p>Type 5 protective clothing</p>  <p>3.Safety boots</p>  <p>4.Face & Eye protection</p>  <p>5.Half-face respirators</p>  <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p>  <p>8. Long-sleeved shirts</p>	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 5 years.. 3. All workers need to be tested once they leave the programme</p>		

				6	<p>Endocrine Disrupting Chemicals (EDC) GHS08 DANGER</p>  <p>H370 (causes damage to organs – lungs)</p>	<p>1.Chemically resistant nitrile gloves</p> <p>2.Type 3 and Type 4 protective clothing</p>   <p>Type 5 protective clothing</p>  <p>3.Safety boots</p> <p>4.Face & Eye protection</p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	      	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>		
				7	<p>Acute toxicity to aquatic organisms GHS09 WARNING</p>							

					 H400 (Very toxic to aquatic life)							
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects) H411 (Toxic to aquatic life with long lasting effects) H412 (harmful to aquatic life with long lasting effects)							
Combinations	Group 4: Synthetic auxins	Pyridine compounds such as amine salt + Pyridine compounds such as Clopyralid (Confront, Astra)	2	Acute toxicity to mammals and birds GHS07 WARNING  H302 (Harmful if swallowed) H315 (Causes skin irritation) H317 (May cause an allergic reaction) H318 (causes serious eye damage) H319 (causes serious eye irritation) H335 (May cause respiratory irritation) H373 (May cause damage to organs)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing 3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators	    	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme			

					- heart, liver, kidneys)	7.Apron/ Knapjack			R95, R99, R100				
			5	Developmental and Reproductive toxicity GHS08 DANGER  H360 (May damage fertility or the unborn child)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing  Type 5 protective clothing  3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack 8. Long-sleeved shirts	       	EN ISO 20345 EN 166:2001 EN140 EN 149 EN 143:2000 R95, R99, R100	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 5 years.. 3. All workers need to be tested once they leave the programme				

				8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H411 (Toxic to aquatic life with long lasting effects)</p>							
Combinations	Group 4: Synthetic auxins	Pyridine compounds such as Triclopyr as triethyl ammonium + Aminopyralid (Confront super)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H317 (May cause an allergic skin reaction) H318 (Causes serious eye damage) H319 (Causes serious eye irritation) H315 (Causes skin irritation) H335 (may cause respiratory irritation) H336 (may cause drowsiness or dizziness)</p>	<p>1.Chemically resistant nitrile gloves</p>  <p>2.Type 3 and Type 4 protective clothing</p>  <p>3.Safety boots</p>  <p>4.Face & Eye protection</p>  <p>5.Half-face respirators</p>  <p>6.Particulate air filters for respirators</p>  <p>7.Apron/ Knapjack</p> 	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	<p>5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test</p>	<p>1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme</p>				

				5	<p>Developmental and Reproductive toxicity GHS08 DANGER</p>  <p>H360 (may damage fertility or the unborn child)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>   <p>Type 5 protective clothing</p>  <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	      	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 5 years.. 3. All workers need to be tested once they leave the programme</p>			
				7	<p>Acute toxicity to aquatic organisms GHS09 WARNING</p> 								

					H400 (Very toxic to aquatic life)								
				8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H410 (Very toxic to aquatic life with long lasting effects) H11 (Toxic to aquatic life with long lasting effects)</p>								
Combinations	Group 4: Synthetic auxins	Pyridine compounds such as Triclopyr as Butoxy ethyl ester + Aminopyralid (Garlon Max)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H302 (Harmful if swallowed) H315 (causes skin irritation) H317 (May cause an allergic reaction) H318 (causes serious eye damage) H319 (causes serious eye irritation) H335 (may cause respiratory irritation) H336 (may cause drowsiness or dizziness) H373 (May cause damage to organs)</p>	<p>1.Chemically resistant nitrile gloves</p>  <p>2.Type 3 and Type 4 protective clothing</p>   <p>3.Safety boots</p>  <p>4.Face & Eye protection</p>  <p>5.Half-face respirators</p>  <p>6.Particulate air filters for respirators</p>  <p>7.Apron/ Knapjack</p> 	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p>	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	<p>1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave they programme</p>					

					- heart, liver, kidneys)			R95, R99, R100					
				5	<p>Developmental and Reproductive toxicity GHS08 DANGER</p>  <p>H360 (May damage fertility or the unborn child)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>   <p>Type 5 protective clothing</p>  <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	      	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 5 years.. 3. All workers need to be tested once they leave the programme</p>			

				8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H410 (Very toxic to aquatic life with long lasting effects)</p>							
Uracils	Group 5: Photosynthetic inhibitors at Photosystem II, Site A.	Bromacil (Bushwacker)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H302 (Harmful if swallowed) H315 (Causes skin irritation) H319 (Causes serious eye irritation) H335 (may cause respiratory irritation)</p>	<p>1. Chemically resistant nitrile gloves</p>  <p>2. Type 3 and Type 4 protective clothing</p>   <p>3. Safety boots</p>  <p>4. Face & Eye protection</p>  <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p>  <p>7. Apron/ Knapjack</p> 	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	<p>5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave the programme</p>				

				7	Acute toxicity to aquatic organisms GHS09 WARNING  H400 (Very toxic to aquatic life)							
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)							
Ureas	Group 7: Photosynthetic inhibitors at Photosystem II, Site B.	Tebuthiuron (Limpopo, Molopo)	2	Acute toxicity to mammals and birds GHS07 WARNING  H302 (Harmful if swallowed)	<ul style="list-style-type: none"> 1. Chemically resistant nitrile gloves 2. Type 3 and Type 4 protective clothing 3. Safety boots 4. Face & Eye protection 5. Half-face respirators 6. Particulate air filters for respirators 7. Apron/ Knapjack 	     	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p>	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	<ul style="list-style-type: none"> 1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave the programme 			

								R95, R99, R100				
				7	Acute toxicity to aquatic organisms GHS09 WARNING  H400 (Very toxic to aquatic life)							
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)							
Combinations	Group 5 (Uracil) + Group 7 (urea)	Bromacil + Tebuthiuron (Bundu)	2	Acute toxicity to mammals and birds GHS07 WARNING  H302 (Harmful if swallowed) H315 (Causes skin irritation) H319 (Causes serious eye irritation) H335 (may cause respiratory irritation)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing 3.Safety boots 4.Face & Eye protection 5.Half-face respirators		EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345 EN 166:2001	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once they leave the programme			

					6.Particulate air filters for respirators 	EN 140, EN149, EN 143:200						
					7.Apron/ Knapjack 	R95, R99, R100						
				7	Acute toxicity to aquatic organisms GHS09 WARNING  H400 (Very toxic to aquatic life)							
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)							
Glycines	Group 9: Inhibitors of EPSP synthesis.	Phosphonoglycines such as Glyphosate isopropylamine salts (Seismic, tangleweed) POE-T free	2	Acute toxicity to mammals and birds GHS07 WARNING  H318 (Causes serious eye damage)	1.Chemically resistant nitrile gloves  2.Type 3 and Type 4 protective clothing   3.Safety boots 	EN 374:2016 EN 14605:2005 EN 345: 1993 EN ISO 20345	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years. 3. All workers need to be tested once				

						<p>4.Face & Eye protection </p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators </p> <p>7.Apron/ Knapjack </p>	<p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>				they leave they programme
Glycines	Group 9: Inhibitors of EPSP synthesis.	Phosphonoglycines such as Glyphosate sodium salts (Kilo max)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING </p> <p>H318 (Causes serious eye damage)</p>	<p>1.Chemically resistant nitrile gloves </p> <p>2.Type 3 and Type 4 protective clothing </p> <p>3.Safety boots </p> <p>4.Face & Eye protection </p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators </p> <p>7.Apron/ Knapjack </p>	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>		5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test		<p>1.All workers need to be tested before they start working.</p> <p>2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years.</p> <p>3. All workers need to be tested once they leave they programme</p>	

Glycines	Group 9: Inhibitors of EPSP synthesis.	Phosphonoglycines such as glyphosate (all GBH's containing POE-T such as Roundup etc)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H318 (Causes serious eye damage)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p> <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p>	     	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	<p>1. All workers need to be tested before they start working.</p> <p>2. If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years.</p> <p>3. All workers need to be tested once they leave the programme</p>				
			3	<p>Carcinogenicity GHS07 WARNING</p>  <p>H335 (May cause respiratory irritation) H336 (may cause drowsiness or dizziness)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>	 	<p>EN 374:2016</p> <p>EN 14605:2005</p>	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	<p>1. All workers need to be tested before they start working.</p> <p>2. If the worker sprays 8 hours per</p>				

					<p>H315 (Causes skin irritation) H319 (causes serious eye irritation)</p> 	<p>3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack</p>    	<p>EN 345: 1993 EN ISO 20345 EN 166:2001 EN 140, EN149, EN 143:200 R95, R99, R100</p>		<p>day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>		
			8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H411 (Toxic to aquatic life with long lasting effects)</p>							
Organoarsenicals	Group 17: Unknown	Monosodium methylarsonate (MSMA)	2	<p>Acute toxicity to mammals and birds GHS07 WARNING</p>  <p>H302 (Harmful if swallowed) H315 (causes skin irritation) H319 (Causes serious eye irritation)</p> 	<p>1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing</p>  	<p>EN 374:2016 EN 14605:2005 EN 345: 1993</p>		<p>5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test</p>	<p>1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years.</p>		

					H332 (Harmful if inhaled)	<p>3.Safety boots</p> <p>4.Face & Eye protection</p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p>	   	<p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>				3. All workers need to be tested once they leave they programme
			3	<p>Carcinogenicity GHS07 WARNING</p>  <p>H335 (May cause respiratory irritation) H336 (May cause drowsiness or dizziness)</p>	<p>1.Chemically resistant nitrile gloves</p> <p>2.Type 3 and Type 4 protective clothing</p> <p>3.Safety boots</p> <p>4.Face & Eye protection</p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p>	     	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p>	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	<p>1.All workers need to be tested before they start working.</p> <p>2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years..</p> <p>3. All workers need to be tested once they leave the programme</p>			

								R95, R99, R100					
				6	<p>Endocrine Disrupting Chemicals (EDC) GHS08 DANGER</p>  <p>H371 (may cause damage to organs (kidneys and liver)) H372 (causes damage to organs through prolonged effect (liver and kidneys))</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>  <p>Type 5 protective clothing</p>  <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	      	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>			

Bipyridyliums	Group 22: Cell membrane disruptors	Diquat dibromide (Scuba, Midstream) & Paraquat (Gramoxone)	2	<p>Acute toxicity to mammals and birds</p> <p>GHS06 DANGER</p>  <p>H301(Toxic if swallowed) H311(Toxic in contact with skin) H330(Fatal if inhaled)</p> <p>GHS07 WARNING</p>  <p>H315(Causes skin irritation) H319(causes serious eye irritation) H335(May cause respiratory irritation) H372(Causes damage to organs)</p>	<p>1.Chemically resistant nitrile gloves</p> <p>2.Type 3 and Type 4 protective clothing</p> <p>3.Safety boots</p> <p>4.Face & Eye protection</p> <p>5.Half-face respirators</p> <p>6.Particulate air filters for respirators</p> <p>7.Apron/ Knapjack</p>	     	<p>EN 374:2016</p> <p>EN 14605:2005</p> <p>EN 345: 1993</p> <p>EN ISO 20345</p> <p>EN 166:2001 EN 140, EN149, EN 143:200</p> <p>R95, R99, R100</p>	5cc fresh urine sample refrigerated. Tested using ELIZA dipstick test	<p>1.All workers need to be tested before they start working.</p> <p>2.If the worker sprays 8 hours per day for 5 days per week, an additional test is needed every 2 years.</p> <p>3. All workers need to be tested once they leave the programme</p>		
			7	<p>Acute toxicity to aquatic organisms</p>  <p>H400 (Very toxic to aquatic life)</p>							

				8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING</p>  <p>H411 (Toxic to aquatic life with long lasting effects)</p>								
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PESTICIDES FOR INVASIVE ANIMAL CONTROL

	Chemical group	MOA	Examples	Hazard Group	Hazard Criterion	PPE			Medical Biomonitoring		Frequency and Duration		Environmental monitoring
						Type	Pictogram	Classification	Blood	Urine	Blood	Urine	
1	Rodenticides	Inhibits vitamin K, anti-coagulant	Difenacoum, Brodifacoum Coumatetralyl	2	<p>Acute Toxicity to mammals and birds GHS06 DANGER</p>  <p>H300 (Fatal if swallowed) H310 (Fatal in contact with skin) GHS07 WARNING</p>  <p>H373 (Causes damage to organs through prolonged or repeated exposure – blood)</p>	<p>1. Chemically resistant nitrile gloves</p>  <p>2. Type 3 and Type 4 protective clothing</p>  <p>Type 5 protective clothing</p>  <p>3. Safety boots</p>  <p>4. Face & Eye protection</p>  <p>5. Half-face respirators</p> 	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2001</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>		<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>			

						<p>6.Particulate air filters for respirators</p> 					
					<p>7.Apron/ Knapjack</p>						
					<p>8. Long-sleeved shirts</p>						
			5	<p>Developmental and Reproductive toxicity GHS08 DANGER</p>  <p>H360D (May damage the unborn child)</p>	<p>1.Chemically resistant nitrile gloves</p>  <p>2.Type 3 and Type 4 protective clothing</p>  <p>Type 5 protective clothing</p>  <p>3.Safety boots</p>  <p>4.Face & Eye protection</p>  <p>5.Half-face respirators</p>  <p>6.Particulate air filters for respirators</p>  <p>7.Apron/ Knapjack</p>	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>			

						8. Long-sleeved shirts							
				6	<p>Endocrine Disrupting Chemicals (EDC) GHS08 DANGER</p>  <p>H372 (Causes damage to organs through prolonged or repeated exposure – blood)</p>	<p>1. Chemically resistant nitrile gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>   <p>Type 5 protective clothing</p>  <p>3. Safety boots</p> <p>4. Face & Eye protection</p> <p>5. Half-face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron/ Knapjack</p> <p>8. Long-sleeved shirts</p>	     	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>			

				7	Acute toxicity to aquatic organisms  H400 (Very toxic to aquatic life)							Ensure environmental monitoring is complied with such as ESRA protocols
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)							Ensure environmental monitoring is complied with such as ESRA protocols
		Cholecalciferol	2	Acute Toxicity to mammals and birds GHS06 DANGER  H301 (Toxic is swallowed) H311 (Toxic in contact with skin) H330 (fatal if inhaled)	1.Chemically resistant nitrile gloves  2.Type 3 and Type 4 protective clothing  Type 5 protective clothing  3.Safety boots  4.Face & Eye protection  5.Half-face respirators 	EN ISO 20345 EN 166:2001 EN140 EN 149 EN 143:2000 R95, R99, R100	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme				

					6.Particulate air filters for respirators 7.Apron/ Knapjack 8. Long-sleeved shirts						
			6	Endocrine Disrupting Chemicals (EDC) GHS08 DANGER  H372 (Causes damage to organs through prolonged or repeated exposure)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing  Type 5 protective clothing  3.Safety boots 4.Face & Eye protection  5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack	     	EN ISO 20345 EN 166:2001 EN140 EN 149 EN 143:2000 R95, R99, R100	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme		

						8. Long-sleeved shirts							
2	Avicides	Sedative powder	alphachloralose	2	<p>Acute Toxicity to mammals and birds GHS06 DANGER</p>  <p>H301 (Toxic if swallowed)</p> <p>GHS07 WARNING</p>  <p>H332 (Harmful if inhaled) H336 (may cause drowsiness or dizziness)</p>	<p>1. Chemically resistant nitrile gloves</p>  <p>2. Type 3 and Type 4 protective clothing</p>   <p>Type 5 protective clothing</p>  <p>3. Safety boots</p>  <p>4. Face & Eye protection</p>  <p>5. Half-face respirators</p>  <p>6. Particulate air filters for respirators</p>  <p>7. Apron/ Knapjack</p>  <p>8. Long-sleeved shirts</p>	<p>EN ISO 20345</p> <p>EN 166:2001</p> <p>EN140 EN 149</p> <p>EN 143:2000</p> <p>R95, R99, R100</p>	<p>20cc fresh blood sample. AChE tests done with Test-Mate model 400 device</p>	<p>1. All workers need to be tested before they start working. 2. If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme</p>				

				7	Acute toxicity to aquatic organisms  H400 (Very toxic to aquatic life)							Ensure environmental monitoring is complied with such as ESRA protocols
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)							Ensure environmental monitoring is complied with such as ESRA protocols
	Uptake orally resulting in hepatic necrosis and eventual death	DRC 1336/Starlicide	2	Acute Toxicity to mammals and birds GHS06 DANGER  H301 (Toxic if swallowed) H311 (Toxic in contact with skin) GHS07 WARNING  H315 (Causes skin irritation) H317 (May cause an allergic skin reaction) H319 (Causes serious eye irritation) H332 (Harmful if inhaled)	1.Chemically resistant nitrile gloves  2.Type 3 and Type 4 protective clothing  Type 5 protective clothing  3.Safety boots  4.Face & Eye protection  5.Half-face respirators 	EN ISO 20345 EN 166:2001 EN140 EN 149 EN 143:2000 R95, R99, R100	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done every 2 years.. 3. All workers need to be tested once they leave the programme				

					6.Particulate air filters for respirators 7.Apron/ Knapjack 8. Long-sleeved shirts							
				7	Acute toxicity to aquatic organisms  H400 (Very toxic to aquatic life)							Ensure environmental monitoring is complied with such as ESRA protocols
				8	Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)							Ensure environmental monitoring is complied with such as ESRA protocols
3	Piscicides	Mitochondrial NADH: ubiquinone reductase inhibitor and toxin	Rotenone	2	Acute Toxicity to mammals and birds GHS06 DANGER  H301 (Toxic if swallowed) GHS07 WARNING  H315 (Causes skin irritation)	1.Chemically resistant nitrile gloves 2.Type 3 and Type 4 protective clothing  	 	EN ISO 20345 EN 166:2001 EN140 EN 149	20cc fresh blood sample. AChE tests done with Test-Mate model 400 device	1.All workers need to be tested before they start working. 2.If the worker sprays 8 hours per day for 5 days per week, an additional test needs to be done		

					<p>H319 (Causes serious eye irritation) H335 (May cause respiratory irritation)</p>	<p>Type 5 protective clothing  3.Safety boots 4.Face & Eye protection 5.Half-face respirators 6.Particulate air filters for respirators 7.Apron/ Knapjack 8. Long-sleeved shirts</p>	   	<p>EN 143:2000</p> <p>R95, R99, R100</p>			<p>every 2 years.. 3. All workers need to be tested once they leave the programme</p>	
			7	<p>Acute toxicity to aquatic organisms  H400 (Very toxic to aquatic life)</p>								<p>Ensure environmental monitoring is complied with such as ESRA protocols</p>
			8	<p>Persistence in soil/water and soil absorption potential & bio magnification & bioaccumulation GHS09 WARNING  H410 (Very toxic to aquatic life with long lasting effects)</p>								<p>Ensure environmental monitoring is complied with such as ESRA protocols</p>

