



Policy

PERSONAL PROTECTIVE EQUIPMENT

FSC-POL-30-001b V1-0 EN



Title: Personal Protective Equipment

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Contact for comments: FSC International – Performance and Standards Unit
Adenauerallee 134
53113 Bonn
Germany

Phone: +49 -(0)228 -36766 -0

Fax: +49 -(0)228 -36766 -65

Email : psu@fsc.org

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INTRODUCTION

The objective of this document is to provide information to support Standard Developers to determine the personal protective equipment needs for the use of a highly hazardous pesticide (HHP), considering the hazard group, hazard criterion and subset the HHP belongs to, that shall be considered when adapting International Generic Indicator 10.7.15 in FSC-STD-60-004 V2-1 *International Generic Indicators*.

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SCOPE

This document specifies requirements for Standard Development Groups developing or revising International Generic Indicators for the use of highly hazardous pesticides into their Forest Stewardship Standards.

All aspects of this document are considered normative, including the scope, effective and validity dates, references, terms and definitions, footnotes, graphics, tables and annexes, unless otherwise stated.

Notes, information/guidance boxes and examples are not considered normative.

REFERENCES

The following referenced documents are relevant for the application of this document.

For references without a version number, the latest version of the referenced document (including any amendments) applies:

FSC-POL-30-001	FSC Pesticides Policy
FSC-POL-30-001a	FSC Lists of Highly Hazardous Pesticides
FSC-STD-60-004	International Generic Indicators

1. PERSONAL PROTECTIVE EQUIPMENT



INSTRUCTIONS FOR STANDARD DEVELOPERS:

This table provides information for determining the personal protective equipment needs for the use of a highly hazardous pesticide (HHP), considering the hazard group, hazard criterion and subset the HHP belongs to, that shall be considered when adapting the International Generic Indicator 10.7.15.


Standard Developers shall ensure that requirements for personal protective equipment in the national indicators, beside meeting the requirements in national laws, regulations and product labels, meet or exceed the requirements specified in this table.

In all cases, the personal protective equipment shall be appropriate to mitigate the exposure risk associated with the specific HHP, e.g. respirators to mitigate inhalation risk or gloves and overalls to mitigate dermal absorption risk.






The column “Subset of chemical pesticides” provides a partial listing of chemicals in the given hazard group. For a complete list of chemicals in any hazard group, Standard Developers shall refer to the most recent version of FSC-POL-30-001a *FSC Lists of highly hazardous pesticides*.






The columns “Hazard group” and “Hazard criterion” are as described in FSC-POL-30-001.







The sources of the information provided in the columns “Personal protective equipment” and “Classification” are *FAO/WHO International Code of Conduct on Pesticide Management: Guidelines for Personal Protection when Handling and Applying Pesticides, 2020*.






Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
Organochlorines/ chlorinated hydrocarbons (DDT, Endosulfan, Atrazine, Vinclozolin, Chlordane, Lindane, Hexachlorobenzene,)	Relevant International Agreements or conventions	1 Relevant International Agreements or Conventions GHS05 DANGER  H290, H314, H318	1. Butyl rubber gloves	EN 374:2016
Chemical pesticides listed in the Annex III of the Rotterdam Convention on the Prior Informed Consent Procedure (Benomyl, Captafol, Carbofuran, DDT, DNOC, DNOC ammonium salt, DNOC potassium salt, DNOC sodium salt, Ethylene dibromide, Ethylene dichloride, Ethylene oxide, Fluoroacetamide, , Hexachlorobenzene, Hexachlorocyclohexane, Lindane, Mercury, , Monocrotophos, Paraquat dichloride, Parathion-methyl, PCP, Thiram)			2. Type 3 protective clothing (liquid tight)	EN 14605:2005






¹ Globally Harmonized System







Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
Methyl bromide		<p>GHS06 DANGER</p>  <p>H300, H301 H310, H311, H330, H331,</p> <p>GHS07 WARNING</p>  <p>Ozone depleting H420</p>	<p>Type 4 protective clothing (spray tight)</p>  <p>Type 5 protective clothing (airborne particles)</p>  <p>Type 6 protective clothing (chemical splash)</p>  <p>3.Safety boots</p> <p>4.Full face respirators</p> <p>Full face respirators for vapours and gases.</p> <p>5. Particulate air filters for respirators.</p> <p>6. Apron</p>	<p>EN 14605:2005</p> <p>BS EN ISO 13982:2004</p> <p>EN 13034</p> <p>EN 345:1993 EN ISO 20345</p> <p>EN 136</p> <p>EN 141:2000</p> <p>P95, P99, P100</p> <p>EN 467:1995</p>




Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
Buprydyls (Paraquat, Diquat, Diquat dibromide)	Acute toxicity	<p>2 Acute toxicity to mammals and birds</p> <p>GHS05 DANGER</p>  <p>H314, H318</p> <p>GHS06 DANGER</p>  <p>H330, H301 H310, H311 H330, H331</p> <p>GHS07 WARNING</p>  <p>H302, H312 H332, H315 H317, H319</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 and Eye protection (safety goggles)</p> <p>5. Half face respirators</p> <p>6. Particulate air filters for respirators</p> <p>7. Apron</p>	<p>EN 374:2016</p> <p>EN14605:2005</p> <p>EN 345:1993 EN ISO 20345</p> <p>EN 166: 2001</p> <p>EN 140, EN 149 EN 143: 2000</p> <p>R95, R99, R100</p> <p>EN 467: 1995</p>






Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
Neonicotinoids (Acetamiprid, Imidacloprid, Thiacloprid)	Acute toxicity	<p>2 Acute toxicity to mammals and birds</p> <p>GHS05 DANGER</p>  <p>H314, H318</p> <p>GHS06 DANGER</p>  <p>H300, H301 H310, H311 H330, H331</p> <p>GHS07 WARNING</p>  <p>H302, H312 H332, H315 H317, H319</p>	<p>1. Neoprene glove</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 and eye protection</p> <p>5. Half face respirator</p> <p>6. Particulate filters for respirators</p>	<p>EN 374:2016</p> <p>EN14605:2005</p> <p>BS EN ISO 13982: 2004</p> <p>BS EN ISO 13982: 2004 EN 345:1993 EN ISO 20345</p> <p>EN 166:2001</p> <p>EN 140 EN149 EN143: 2000</p> <p>R95, R99, R100</p>




Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
	Chronic toxicity	4 Mutagenicity to mammals GHS08 DANGER  H340, H341	7. Apron	EN 467: 1995
	Environmental toxicity	8 Persistence in soil or water and soil sorption potential and bio-magnification and bio-accumulation GHS09 WARNING  H410, H411 H412, 4413 Environment		
Pyrethroids (Cyfluthrin, Cypermethrin, Deltamethrin, Permethrin) Phenoxyalkyl acids Amides (Alachlor, Butachlor, Propachlor)	Acute toxicity	2 Acute toxicity to mammals and birds GHS05 DANGER  H314, H318	1. Neoprene gloves/chemically resistant gloves 2. Type 3 and Type 4 protective clothing  	EN 374:2016 EN14605:2005








Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		<p>GHS06 DANGER</p>  <p>H300, H301, H310, H311, H330, H331</p> <p>GHS07 WARNING</p>  <p>H302, H312, H332, H315, H317, H319</p>	<p>Type 5 protective clothing</p>  <p>3.Safety boots</p> <p>4.Face and eye protection</p> <p>5.Half face respirator</p> <p>6.Particulate filters for respirators</p>	<p>BS EN ISO 13982: 2004</p> <p>BS EN ISO 13982: 2004 EN 345:1993 EN ISO 20345</p> <p>EN 166:2001</p> <p>EN 140 EN149 EN143: 2000</p> <p>R95, R99, R100</p>
	Chronic toxicity	<p>3 Carcinogenicity</p> <p>GHS07 WARNING</p>  <p>H335, H336</p> <p>GHS08 DANGER</p>  <p>H334, H350 H350i, H350I</p>	<p>7.Apron</p>	<p>EN 467: 1995</p>




Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		<p>4 Mutagenicity to mammals</p> <p>GHS08 DANGER</p>  <p>H340, H341</p>		
		<p>6 Endocrine Disrupting Chemicals (EDC)</p> <p>GHS08 DANGER</p>  <p>H370, H371 H372, H373</p>		
<p>Carbamates Thiocarbamates (Mancozeb, Maneb, Thiram, Molinate)</p>	<p>Chronic toxicity</p>	<p>3 Carcinogenicity</p> <p>GHS07 WARNING</p>  <p>H335, H336</p> <p>GHS08 DANGER</p>  <p>H334, H350 H350i, H350I</p>	<p>1. Neoprene gloves/ chemically resistant gloves</p> <p>2. Type 3 and Type 4 protective clothing</p>  	<p>EN 374:2016</p> <p>EN14605:2005</p>







Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
	<p style="text-align: center;">Environmental toxicity</p>	<p style="text-align: center;">7 Acute toxicity to aquatic organisms</p> <p style="text-align: center;">GHS09 WARNING</p> <div style="text-align: center;">  <p>H400 Environment</p> </div>	<p>3.Safety boots</p> <p>4.Face and eye protection (safety goggles)</p> <p>5.Half-face respirators</p> <p>6.Particulate filters for respirators</p> <p>7.Apron</p>	<p>BS EN ISO 13982: 2004 EN 345:1993 EN ISO 20345</p> <p>EN 166:2001</p> <p>EN 140 EN149 EN143: 2000</p> <p>R95, R99, R100</p> <p>EN 467: 1995</p>
<p>Organophosphates (Malathion, Parathion, Diazinon, Fenthion, Dichlorvos, Chlorpyrifos, Ethion)</p>	<p style="text-align: center;">Acute toxicity</p>	<p style="text-align: center;">2 Acute toxicity to mammals and birds</p> <p style="text-align: center;">GHS05 DANGER</p> <div style="text-align: center;">  <p>H314, H318</p> </div>	<p>1.Neoprene gloves/chemically resistant gloves</p> <p>2.Type 3 and Type 4 protective clothing</p> <div style="text-align: right;">  </div>	<p>EN 374:2016</p> <p>EN14605:2005</p>



Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		<p>GHS06 DANGER</p>  <p>H300, H301 H310, H311 H330, H331</p> <p>GHS07 WARNING</p>  <p>H302, H312 H332, H315 H317, H319</p>	 <p>Type 5 protective clothing</p>  <p>3. Safety boots</p> <p>4. Face and eye protection</p> <p>5. Half face respirators</p> <p>6. Particulate filters for respirators</p>	<p>EN 345:1993 EN ISO 20345</p> <p>EN 166:2001</p> <p>EN 140 EN149 EN143: 2000</p> <p>R95, R99, R100</p>
	<p>Chronic toxicity</p>	<p>3 Carcinogenicity</p> <p>GHS07 WARNING</p>  <p>H335, H336</p> <p>GHS08 DANGER</p>	<p>7. Apron</p>	<p>EN 467: 1995</p>








Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		 <p>H334, H350, H350i, H350l</p>		
		<p>4 Mutagenicity to mammals</p> <p>GHS08 DANGER</p>  <p>H340, H341</p>		
		<p>5 Developmental and reproductive toxicity</p> <p>GHS08 DANGER</p>  <p>H360, H360F H360D, H360FD H361, H361f, H361d, H361fd H362</p>		
		<p>Chronic toxicity</p> <p>6 Endocrine Disrupting Chemicals (EDC)</p> <p>GHS08 DANGER</p>		









Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		 H370, H371 H372, H373		
	Environmental toxicity	7 Acute toxicity to aquatic organisms GHS09 WARNING  H400 Environment		
Carbamates Dithiocarbamates (Metiram, Ziram)	Acute toxicity	2 Acute toxicity to mammals and birds GHS05 DANGER  H314, H318 GHS06 DANGER  H300, H301 H310, H311 H330, H331	1. Neoprene gloves/ chemically resistant gloves 2. Type 3 and Type 4 protective clothing   Type 5 protective clothing  3. Safety boots	EN 374:2016 EN14605:2005 EN 345:1993 EN ISO 20345


Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		<p>GHS07 WARNING</p>  <p>H302, H312 H332, H315 H317, H319</p>	<p>4.Face and eye protection</p> <p>5.Half face respirators</p> <p>6.Particulate filters for respirators</p>	<p>EN 166:2001</p> <p>EN 140 EN149 EN143: 2000</p> <p>R95, R99, R100</p>
	<p>Chronic toxicity</p>	<p>5 Developmental and Reproductive toxicity</p> <p>GHS08 DANGER</p>  <p>H360, H360F H360D, H360FD H361, H361f, H361d, H361d H362</p>	<p>7.Apron</p>	<p>EN 467: 1995</p>
	<p>Chronic toxicity</p>	<p>6 Endocrine Disrupting Chemicals (EDC)</p> <p>GHS08 DANGER</p>  <p>H370, H371 H372, H373</p>		

Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
	Environmental toxicity	7 Acute toxicity to aquatic organisms GHS09 WARNING  H400 Environment		
Di-nitro anilines (Fluchloralin, Oryzalin, Pendimethalin, Trifluralin)	Chronic toxicity	3 Carcinogenicity GHS07 WARNING  H335, H336 GHS08 DANGER  H334, H350 H350i, H350l	1. Neoprene gloves/ chemically resistant gloves 2. Type 3 and Type 4 protective clothing   Type 5 protective clothing  3. Safety boots 4. Face and eye protection	EN 374:2016 EN 14605: 2005 EN 345:1993 EN ISO 20345 EN 166:2001

Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
			5. Half face respirators	EN 140 EN149 EN143: 2000
		6 Endocrine Disrupting Chemicals (EDC) GHS08 DANGER  H370, H371 H372, H373	6. Particulate filters for respirators	R95, R99, R100
	Environmental toxicity	8 Persistence in soil or water and soil sorption potential and bio-magnification and bio-accumulation GHS09 WARNING  H410, H411 H412, 4413 Environment	7. Apron	EN 467: 1995

Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
Glycines (Glyphosate)	Chronic toxicity	3 Carcinogenicity GHS07 WARNING  H335, H336 GHS08 DANGER  H334, H350 H350i, H350I	1. Neoprene gloves / chemically resistant nitrile gloves 2. Type 3 and Type 4 protective clothing   3. Safety boots 4. Face and eye protection 5. FFP3 masks 6. Apron	EN 374:2016 EN 14605: 2005 EN 345:1993 EN 140 EN 149 EN 149:2001 EN 467: 1995
Dioxins	Dioxins	9 Dioxins (residues/ emissions) GHS06 DANGER  H300, H301, H310, H311 H330, H331	1. Butyl rubber gloves 2. Type 3 and Type 4 protective clothing  	EN 374:2016 EN 14605: 2005

Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		<p>GHS08 DANGER</p>  <p>H304, H334, H370, H371 H372, H373</p> <p>GHS09 WARNING</p>  <p>H400, H410, H411, H412, H413 Environment</p>	<p>Type 5 protective clothing</p>  <p>3.Safety boots</p> <p>4.Full face respirators for gases and vapours</p> <p>5.Particulate filters for respirators</p> <p>6.Apron</p>	<p>BS EN ISO 13982: 2004</p> <p>EN 345:1993 EN ISO 20345</p> <p>EN 136 EN 141:2000</p> <p>P95, P99, P100</p> <p>EN 467: 1995</p>
Heavy metals	Heavy Metals	<p>10 Heavy Metals</p> <p>GHS06 DANGER</p>  <p>H300, H310, H330, H331</p> <p>GHS08 DANGER</p>  <p>H304, H334, H340, H341,</p>	<p>1.Butyl rubber gloves</p> <p>2.Type 3 and Type 4 protective clothing</p>   <p>Type 5 protective clothing</p> 	<p>EN 374:2016</p> <p>EN 14605: 2005</p> <p>BS EN ISO 13982: 2004</p>

Subset of chemical pesticides	Hazard group	Hazard criterion and GHS ¹ classification	Personal protective equipment	Classification
		H350, H351, H360, H361, H362, H370, H370, H371, H372 GHS09 WARNING  H400, H410, H411, H412, H413 Environment	3.Safety boots 4.Full face respirators for gases and vapours 5.Particulate filters for respirators 6.Apron	EN 345:1993 EN ISO 20345 EN 136 EN 141:2000 P95, P99, P100 EN 467: 1995



FSC International – Performance and Standards Unit

Adenauerallee 134

53113 Bonn

Germany

Phone: +49 -(0)228 -36766 -0

Fax: +49 -(0)228 -36766 -65

Email : psu@fsc.org