

Brussels, 12 July 2019 (OR. en)

11229/19 ADD 1

SOC 553 EMPL 423 SAN 349

COVER NOTE

From:	European Commission
date of receipt:	11 July 2019
То:	General Secretariat of the Council
No. Cion doc.:	ANNEX to D062408/02
Subject:	COMMISSION DIRECTIVE (EU)/ of XXX amending Annexes I, II and III to Council Directive 89/656/EEC as regards purely technical adjustments - ANNEX

Delegations will find attached document ANNEX to $\,$ D62408/02.

Encl.: ANNEX to D62408/02.

11229/19 ADD 1 MH/mk LIFE.1.C **EN**

$\mathbf{E}\mathbf{N}$

ANNEX

(1) Annex I to Directive 89/656/EEC is replaced by the following:

"ANNEX I

RISKS IN RELATION TO THE BODY PARTS TO BE PROTECTED BY PPE (*)

(*) This list of risks/parts of the body cannot be expected to be exhaustive.

The risk assessment will determine the need to provide a PPE and its characteristics according to the provisions of this Directive.

RISKS

			PHYSICAL CHEMIC			L (includir	ng nanomate	rial) *	al) * BIOLOGICAL AGENTS (contained in)			OTHER RISKS																
					MECH	ANIC	CAL			NORE	THEF	RMAL	ELECTE	RICAL	RADI	ATION	AERO	OSOLS	LIQ	UIDS	GASES AND	AERO- SOLS	LIQI	JIDS	MATERIALS, PERSONS, ANIMALS, ETC.	DROW-	OXYGEN	NON-
			1	2	3	4	5	6	7	NOISE	Heat and/or fire	Cold	Electric shock ⁸	Static elec- tricity	Non- ion- izing	Ion- izing	Solid 10	Liquid 11	Immer- sion	Splashes, sprays, jets	VA- POURS	Solids and liquids	Direct and indirect contact	Splashes, sprays, jets	Direct and indirect contact	NING	DEFI- CIENCY	VISIBI- LITY
		Cranium																										
	Head	Whole head																										
TEI	Ears																											
ТЕС	Eyes																											
PRO	Face																											
BE	Respirat	tory system																										
Y TO	Hands																											
COD	Arms (p	arts)																										
PARTS OF THE BODY TO BE PROTECTED	Foot																											
)F T	Legs (pa	arts)																										
TS	Skin																											
PAR	Trunk/A	Abdomen																										
	Partial b	ody																					·				·	
	Whole b	oody																										

Impact caused by falling or ejected objects, collision with an obstacle and high-pressure jets

Falls due to slipping

³ Falls from a height

⁴ Vibration

Static compression of parts of the body

Mechanical injuries (abrasion, perforation, cuts, bites, wounds or stabs)

⁷ Entanglement and trapping

⁸ Direct or indirect contact

⁹ Including sunlight (other than direct observation)

Dusts, fumes, smokes and fibres

¹¹ Mists and fogs

 $^{^*}$ See Recommendation 2011/696/EU on the definition of nanomaterial $^{""}$

(2) Annex II to Directive 89/656/EEC is replaced by the following:

"ANNEX II

NON-EXHAUSTIVE LIST OF TYPES OF PERSONAL PROTECTIVE EQUIPMENT WITH REGARD TO THE RISKS THEY PROVIDE PROTECTION AGAINST

Equipment for HEAD PROTECTION

- Helmets and/or caps/balaclavas/headgears against:
 - Impacts caused by falling or ejected object
 - Collision with an obstacle
 - Mechanical risks (perforation, abrasion)
 - Static compression (lateral crushing)
 - Thermal risks (fire, heat, cold, hot solids including molten metals)
 - Electric shock and live working
 - Chemical risks
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
- Hairnets against risk of entanglement

Equipment for HEARING PROTECTION

- Earmuffs (including e.g. earmuffs attached to a helmet, active noise reduction earmuffs, earmuffs with electrical audio input)
- Earplugs (including e.g. level-dependent earplugs, earplugs adapted to the individual)

Equipment for EYE AND FACE PROTECTION

- Spectacles, goggles and face shields (prescription lenses where appropriate) against:
 - Mechanical risks
 - Thermal risks
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
 - Ionizing radiation
 - Solid aerosols and liquids of chemical and biological agents

Equipment for RESPIRATORY PROTECTION

- Filtering devices against:
 - Particles
 - Gases
 - Particles and gases
 - Solid and/or liquid aerosols
- Insulating devices, including with an air supply
- Self-rescue devices
- Diving equipment

Equipment for HAND AND ARM PROTECTION

- Gloves (including mittens and arm protection) against:
 - Mechanical risks
 - Thermal risks (heat, flame and cold)
 - Electric shock and live working (antistatic, conductive, insulating)
 - Chemical risks
 - Biological agents
 - Ionizing radiation and radioactive contamination
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
 - Vibration risks
- Finger stalls

Equipment for FOOT AND LEG PROTECTION and anti-slip protection

- Footwear (e.g. shoes, including in certain circumstances clogs, boots that may have steel toe-caps) to protect against:
 - Mechanical risks
 - Slipping risks
 - Thermal risks (heat, flame and cold)
 - Electric shock and live working (antistatic, conductive, insulating)
 - Chemicals risks
 - Vibration risks
 - Biological risks
- Removable instep protectors against mechanical risks
- Kneepads against mechanical risks
- Gaiters against mechanical, thermal and chemical risks and biological agents
- Accessories (e.g. spikes, crampons)

SKIN PROTECTION - BARRIER CREAMS¹

- There could be barrier creams to protect against:
 - Non ionizing radiation (UV, IR, solar or welding radiation)
 - Ionizing radiation
 - Chemicals
 - Biological agents
 - Thermal risks (heat, flame and cold)

Equipment for BODY PROTECTION/OTHER SKIN PROTECTION

- Personal protective equipment for protection against falls from a height, such as retractable type fall arresters, full body harnesses, sit harnesses, belts for work positioning and restraint and work positioning lanyards, energy absorbers, guided-type fall arresters including an anchor line, rope adjustment devices, anchor devices that are not designed to be permanently fixed and that do not require fastening works before use, connectors, lanyards, rescue harness
- Protective clothing, including whole body (i.e. suits, overalls) protection and partial body (i.e. gaiters, trousers, jackets, waistcoats, aprons, kneepads, hoods, balaclavas) protection against:
 - Mechanical risks
 - Thermal risks (heat, flame and cold)
 - Chemicals
 - Biological agents
 - Ionizing radiation and radioactive contamination
 - Non-ionizing radiation (UV, IR, solar or welding radiation)
 - Electric shock and live working (antistatic, conductive, insulating)
 - Entanglement and trapping
- Lifejackets for prevention of drowning and buoyancy aids
- PPE for signalling the user's presence visually"

¹ In certain circumstances, as a result of the risk assessment, barrier creams could be used together with other PPE with the aim of protecting workers' skin from related risks. Barrier creams are PPE under the scope of Directive 89/656/EEC as this type of equipment can be considered in certain circumstances as "additional or accessory" within the meaning of Article 2 of Directive 89/656/EEC. However, barrier creams are not PPE according to the definition in Article 3(1) of Regulation (EU) 2016/425.

"ANNEX III

NON-EXHAUSTIVE LIST OF ACTIVITIES AND SECTORS OF ACTIVITY WHICH MAY REQUIRE THE PROVISION OF PERSONAL PROTECTIVE EQUIPMENT (*)

(*) The risk assessment will determine the need to provide a PPE and its characteristics according to the provisions of this Directive

I. PHYSICAL RISKS

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
		PHYSICAL - MECHANICAL	
Impact caused by falling or ejected objects, collision with an obstacle and high- pressure jets	Cranium Protective helmet	 Work on, underneath or in the vicinity of scaffolding and elevated workplaces Carcase Work and road work Formwork's erection and stripping Scaffolding's assembly and installation Assembly and installation works Demolitions Blasting works Work in pits, trenches, shafts and tunnels Work in the vicinity of lifts, lifting gear, cranes, and conveyors Works in underground workings, quarries, open diggings Work with industrial furnaces, containers, machinery, silos, bunkers and pipelines Slaughtering and Cutting line at slaughterhouses Load handling or Transport and storage Forest work Work on steel bridges, steel building construction, steel hydraulic structures, blast furnaces, steel works and rolling mills, large containers, large pipelines, boiler plants and power stations Earth and rock works Work with bolt-driving tools Work with blast furnaces, direct reduction plants, steelworks, rolling mills, metalworks, forging, drop forging and casting Work involving travelling on bicycles and mechanically propelled bikes 	 Building construction Civil engineering construction Machinery manufacturing, installation and maintenance Shipbuilding Mining works Energy production Infrastructure construction and maintenance Iron and Steel industry Slaughterhouses Railway shunting work Harbours, transport and logistics Forest Industry
	Eyes and/or face Spectacles, goggles and face shields	 Welding, grinding and separating work Manual hammering Caulking and chiselling Rock working and processing Work with bolt-driving tools Work on stock removing machines for small chippings Drop forging The removal and breaking up of fragments Spraying of abrasive substances Use of brush cutter or chainsaw Dental and surgical procedures 	Building construction Civil engineering construction Machinery manufacturing, installation and maintenance Shipbuilding Mining works Energy production Infrastructure construction and maintenance Iron and Steel industries Metal and Wood industries Stone carving Gardening Healthcare Forestry
	Foot and leg (parts) Footwear (shoes/boots, etc.) with safety or protective toecap Footwear with metatarsal protection	 Carcase work and road work Erection and stripping of formwork Scaffolding's assembly and installation Demolitions Blasting works Working and processing of rock Slaughtering and Cutting line works Transport and storage Work with moulds in the ceramics industry 	Building construction Civil engineering construction Machinery manufacturing, installation and maintenance Shipbuilding Mining works Energy production Infrastructure construction and maintenance

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
		packaging Flat glass products and container glassware manufacture, working and processing Conversion and maintenance work Forest works Work with concrete and prefabricated parts involving formwork erection and stripping Work in contractors' yards and warehouses Roof work Work on steel bridges, steel building construction, masts, towers, lifts, steel hydraulic structures, blast furnaces, steelworks and rolling mills, large containers, large pipelines, cranes, boiler plants and power stations Furnace construction, heating and ventilation installation and metal assembly work Work with blast furnaces, direct reduction plants, steelworks, rolling mills, metal works, forging, drop forging, hot pressing and drawing plants Work in quarries and open diggings, coal stock removal Work with moulds in the ceramics industry Lining of kilns in the ceramics industry Railway shunting work	 Slaughterhouses Logistic Companies Manufacturing Industry Glass Industry Forest Industry
Falls due to slipping	Foot Slip-resistant footwear	Works on slippery surfacesWorks on humidity environments	 Building construction Civil engineering construction Shipbuilding Slaughterhouse Cleaning Food industries Gardening Fishing industry
Falls from a height	Whole body PPE designed to prevent or arrest falls from height	 Work on scaffolding Assembly of prefabricated parts Works on masts Roof work Work on vertical or slope surfaces Work in high crane cabs Work in high cabs of warehouse stacking and retrieval equipment Work in high sections of drilling towers Work in shafts and sewers 	Building construction Civil engineering construction Shipbuilding Infrastructure maintenance
Vibration	Hands Protective Gloves	- Works with hand-guided tools	Manufacturing industries Building work Civil Engineering work
Static compres-	Knee (leg parts) Kneepads	Installation of blocks, tiles and pavers on the floor	Building construction Civil engineering construction
sion of parts of the body	Foot Footwear with toecaps	DemolitionsLoad handling	Building construction Civil engineering construction Transport and storage Maintenance
Mechanic al iniuries	Eyes and/or face Spectacles, goggles, face shields	 Works with hand-guided tools Welding and forging Grinding and separating work Chiselling Rock working and processing Work on stock removing machines for small chippings Drop forging The removal and breaking up of fragments Spraying of abrasive substances Use of brush cutter or chainsaw 	Building construction Civil engineering construction Shipbuilding Mining works Energy production Infrastructure maintenance Iron and Steel industries Metal and Wood industries Stone carving Gardening Forestry
al injuries (abrasion, perfora- tion, cuts, bites, wounds or stabs)	Hands Mechanical protective gloves	 Works with steel framework Handling of sharp-edged objects, other than machines where there is a danger of the gloves being caught Regular cutting using a hand knife for production and slaughtering Changing the knives of cutting machines Forest works Gardening work 	Building construction Civil engineering construction Shipbuilding Infrastructure maintenance Manufacturing industries Food industry Slaughter Forest industry
	Forearms Arm protection	Boning and cutting	Food industrySlaughter
	Trunk/Abdomen/Leg Protective apron, gaiters	Regular cutting using a hand knife for production and slaughtering	Food industry Slaughter
	Penetration resistance trousers (cut-resistant trousers)	- Forest works	- Forest industry

			D062408/02
Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
	Foot Penetration resistance footwear	 Carcase works and road works Demolition Formwork's erection and stripping Forest works 	 Building construction Civil engineering construction Shipbuilding Mining works Forest industry
Entangle- ment and trapping	Whole body Protective clothing for use where there is a risk of entanglement with moving parts	 Entangle oneself in parts of machines Get caught in parts of machines Get caught with garment in parts of machines Get swept away 	Machine building Manufacture of heavy-duty machines Engineering Construction Agriculture
		PHYSICAL - NOISE	
Noise	Ears Hearing protectors	 Work with metal presses Work with pneumatic drills The work of ground staff at airports Works with power tools Blasting works Pile-driving work Wood and textile working 	 Metal Industry Manufacturing industry Building construction Civil engineering construction Aeronautical industry Mining works
		PHYSICAL - THERMAL	
	Face/Whole head Welding headshields, helmets / caps against heat or fire, protective hoods against heat and/or flame	 Work in presence of high temperatures, radiating heat or fire Work with or in the vicinity of molten substances Work with welding plastics guns 	Iron and Steel IndustryMetal IndustryMaintenance servicesManufacturing Industry
	Trunk/abdomen/legs Protective apron, gaiters	Welding and forging Casting	 Iron and Steel Industry Metal Industry Maintenance services Manufacturing industry
Heat and/or fire	Hand Protective gloves against heat and/or flame	Welding and forging Work in presence of high temperatures, radiating heat or fire Work with or in the vicinity of molten substances	 Iron and Steel Industry Metal Industry Maintenance services Manufacturing industry
	Forearms Sleeves	Welding and forging Work with or in the vicinity of molten substances	 Iron and Steel Industry Metal Industry Maintenance services Manufacturing industry
	Foot Footwear against heat and/or flame	Work with or in the vicinity of molten substances	 Iron and Steel Industry Metal Industry Maintenance services Manufacturing industry
	Whole/partial body Protective clothing against heat and/or flame	Work in presence of high temperatures, radiating heat or fire	Iron and Steel IndustryMetal IndustryForest Industry
	Hand Protective gloves against cold Foot Footwear against cold	 Work in the open air in extreme cold conditions Work in deep-freeze rooms Work with cryogenic liquids 	Building construction Civil engineering construction Shipbuilding Mining works Food Industry Agriculture and fisheries sector
Cold	Whole/partial body including head Protective clothing against cold	 Work in the open air in cold weather conditions Work in deep-freeze rooms 	Building construction Civil engineering construction Shipbuilding Mining works Food Industry Agriculture and fisheries sector Transport and storage
		PHYSICAL - ELECTRICAL	
	Whole head Electrically insulating helmets		
Electric shock (direct or	Hands Electrically insulating gloves Foot	Live working or close to live parts under electrical tension	Energy production Transmission and distribution of electrical energy
indirect or indirect contact)	Electrically insulating footwear Whole body/Hands/Foot	Work on electrical system	Industrial facilities maintenance Building construction Civil engineering construction
	Conductive PPE intended to be worn by skilled persons during		

			D062408/02	
Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors	
	live working at a nominal power system voltage up to 800 kV AC and 600 kV DC			
Static electricity	Hands Antistatic gloves Foot Antistatic/conductive footwear Whole body Antistatic clothing	 Handling plastic and rubber Pouring, collecting or loading into a container Work near to highly charged elements such as conveyor belts Handling explosives 	 Manufacturing industry Feed industry Bagging and packing plants Production, storage or transport of explosives 	
		PHYSICAL - RADIATION		
	Head Caps and helmets	Work in open air	 Fishing and agriculture Building construction Civil engineering construction 	
Non- ionizing radiation, including	Eyes Protective spectacles, goggles and face shields			
including sunlight (other than direct obser- vation)	Whole body (skin) PPE against Natural and artificial UV	Work in the open air Electrical welding Germicidal lamps Xenon lamps	Building construction Civil engineering construction Shipbuilding Mining works Energy production Infrastructure maintenance Fishing and agriculture Forest industry Gardening Food industry Plastic industry Printing industry	
	Eyes Protective spectacles/goggles against ionizing radiation Hands Protective gloves against ionizing radiation	Operating in X-ray facilities Operating in the area of medical radio diagnosis Work with radioactive products	- Healthcare - Veterinary care - Radioactive waste plant - Energy production	
Ionizing radiation	Trunk/abdomen/partial body Protective apron against x-rays /Coat/Vest/Skirt against x-rays	Operating in X-ray facilities Operating in the area of medical radio diagnosis	 Healthcare Veterinary care Dental care Urology Surgery Interventional radiology Laboratories 	
	Head Headwear & Caps PPE for protection against e.g. development of brain tumors	Medical X-ray work places and facilities	- Healthcare - Veterinary care - Dental care - Urology - Surgery - Interventional radiology	
	Partial body PPE for thyroid protection PPE for gonads protection	Operating in X-ray facilities Operating in the area of medical radio diagnosis	Healthcare Veterinary care	
	Whole body Protective clothing against ionizing radiation	Operating in the area of medical radio diagnosis Work with radioactive products	Energy productionRadioactive waste plant	

II. CHEMICAL RISKS (including nanomaterial)

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors						
	CHEMICAL - AEROSOLS								

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
Solid (dusts, fumes,	Respiratory system Respiratory protective devices against particles	 Demolition Blasting works Sanding and Polishing of surfaces Work in presence of asbestos Use of materials consisting of/containing nanoparticles Welding Chimney sweeper Work on the lining of furnaces and ladles where there may be dust Work in the vicinity of blast furnace taps where there may be heavy metal fumes Work in the vicinity of the blast furnace charge 	 Building construction Civil engineering construction Shipbuilding Mining works Iron and Steel industries Metal and Wood industries Automotive industry Stone carving Pharmaceuticals industry Healthcare services Preparation of cytostatics
smokes, fibres, and nano- material)	Hands Chemical Protective gloves and barrier cream as an additional/accessory protection	Work in presence of asbestos Use of materials consisting of/containing nanoparticles	 Building construction Civil engineering construction Shipbuilding Industrial facilities maintenance
	Whole body Protective clothing against solid particles	 Demolition Work in presence of asbestos Use of materials consisting of/containing nanoparticles Chimney sweeper Preparation of plant protection products 	 Building construction Civil engineering construction Shipbuilding Industrial facilities maintenance Agriculture
	Eyes Spectacles/goggles and face shields	Woodworking Road work	Mining industryMetal and wood industryCivil engineering construction
	Respiratory system Respiratory protective devices against particles	Surface treatment (e.g. varnishing/painting, abrasive blasting) Surface cleaning	Metal Industry Manufacturing Industry Automotive sector
Liquid (mists and fogs)	Hands Chemical protective gloves	 Surface treatment Surface cleaning Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning substances 	Metal IndustryManufacturing industryAutomotive sector
	Whole body Chemical protective clothing	Surface treatment Surface cleaning	Metal Industry Manufacturing industry Automotive sector
		CHEMICAL - LIQUIDS	
	Hands Chemical protective gloves,	 Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning products Processing of coating materials Tanning Work in hairdressers and beauty salons 	 Textile and clothing industry Cleaning industry Automobile industry Beauty and hairdressing sectors
Immersion Splashes,	Forearms Chemical protective sleeves	Works with acids and caustic solutions, disinfectants and corrosive cleaning products	Cleaning Chemical industry Cleaning industry Automobile industry
sprays and jets	Foot Chemical protective boots	Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning products	Textile and clothing industryCleaning industryAutomobile industry
	Whole body Chemical protective clothing	Work with liquid sprays Works with acids and caustic solutions, disinfectants and corrosive cleaning products	 Cleaning Chemical industry Cleaning industry Automobile industry Agriculture
		CHEMICAL - GASES AND VAPOURS	
Gases and vapours	Respiratory system Respiratory protective devices against gases	Surface treatment (e.g. varnishing/painting, abrasive blasting) Surface cleaning Work in fermentation and distilling rooms Work inside tanks and digesters Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen Chimney sweeper Disinfectants and corrosive cleaning substances Work in the vicinity of gas converters and blast furnace gas pipes	 Metal Industry Automotive sector Manufacturing industry Cleaning industry Alcoholic drinks production Wastewater treatment plants Waste treatment plant Chemical Industry Petrochemical industry

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
	Hands Chemical protective gloves	 Surface treatment Surface cleaning Work in fermentation and distilling rooms Work inside tanks and digesters Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen 	 Metal Industry Automotive sector Manufacturing industry Alcoholic drinks production Wastewater treatment plants Waste treatment plant Chemical Industry Petrochemical industry
	Whole body Chemical protective clothing	Surface treatment Surface cleaning Work in fermentation and distilling rooms Work inside tanks and digesters Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen	Metal Industry Automotive sector Manufacturing industry Alcoholic drinks production Wastewater treatment plants Waste treatment plant Chemical Industry Petrochemical industry
	Eyes Spectacles, goggles and face shields	Spray paintingWoodworkingMining operations	Automotive sector Manufacturing industry Mine industry Chemical Industry Petrochemical industry

III. BIOLOGICAL AGENTS

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors	
	BIOLO	OGICAL AGENTS (contained in) - AEROSOLS		
Solids and liquids	Respiratory system Respiratory protective devices against particles	Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent	 Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry Biochemical production 	
	Hands Protective gloves against microorganisms Whole/partial body Protective clothing against biological agents Eyes and/or face Protective spectacles, goggles and	Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent	- Healthcare - Veterinary clinics - Clinical analysis laboratories - Research Laboratories - Retirement homes - Homes assistances - Wastewater treatment plants - Waste treatment plant - Food Industry	
	face shields	LOGICAL AGENTS (contained in) - LIQUIDS		
	Hands	COGICAL AGENTS (contained in) - LIQUIDS	77 14	
Direct and indirect contact	Protective gloves against microorganisms Whole/partial body Protective clothing against biological agents Eyes and/or face Protective goggles and face shields	Work that involve contact with human body and animal fluids and tissues (bites, stings) Work in presence of biological agent	 Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry Forest industry 	
Splashes, sprays and jets	Hands Protective gloves against microorganisms	Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent	 Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry 	

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
	Forearms Protective sleeves against microorganisms	Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent	 Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry
	Foot/legs Protective over boots and gaiters	Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent	Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry
	Whole body Protective clothing against biological agents	Work that involve contact with human body and animal fluids and tissues Work in presence of biological agent	- Healthcare - Veterinary clinics - Clinical analysis laboratories - Research Laboratories - Retirement homes - Homes assistances - Wastewater treatment plants - Waste treatment plant - Food Industry
	BIOLOGICAL AGEN	TS (contained in) – MATERIALS, PERSONS, ANI	MALS, ETC.
Direct and indirect contact	Hands Protective gloves against microorganisms Whole/partial body Protective clothing against biological agents Eyes and/or face Protective goggles and face shields	Work that involve contact with human body and animal fluids and tissues (bites, stings) Work in presence of biological agent	 Healthcare Veterinary clinics Clinical analysis laboratories Research Laboratories Retirement homes Homes assistances Wastewater treatment plants Waste treatment plant Food Industry Forest industry

IV. OTHER RISKS

Risks	Body part affected Type of PPE	Examples of activities where the use of the corresponding type of PPE may be necessary (*)	Industry and Sectors
Non- visibility	Whole body PPE for signalling the user's presence visually	 Work in proximity of movement of vehicles Asphalt works and road marking Railway works Driving means of transport Work of ground staff at airport 	 Building construction Civil engineering construction Shipbuilding Mining works Transport services and passengers transports
Oxygen deficiency	Respiratory system Insulating respiratory protectives devices	 Work in confined spaces Work in fermentation and distilling rooms Work inside tanks and digesters Work in containers, restricted areas and gas-fired industrial furnaces where there may be gas or insufficient oxygen Work in shafts, sewers and other underground areas connected with sewage 	 Alcoholic drinks production Civil engineering construction Chemical Industry Petrochemical industry
	Respiratory system Diving equipment	– Underwater works	Civil engineering construction
Drowning	Whole body Life jacket	Work on or near waterWork in the seaWork in an airplane	 Fishing industry Aeronautical industry Building construction Civil engineering construction Shipbuilding Docks and harbours